



सत्यमेव जयते

**Government of Bengal**

**Agriculture, Forests and Fisheries Department**

**Annual Progress Report on Forest  
Administration in the Presidency of  
Bengal**

**For the Year**

**1946-47**

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## Introductory

The report for 1946-47 should have been compiled for undivided Bengal. Figures in respect of forests now included in Eastern Pakistan could not, however, be procured from the Conservator of Forests, Eastern Bengal, in spite of repeated reminders. The publication of the report has been delayed in consequence and has now been compiled only for portions which have fallen in West Bengal.

Though the 24-Parganas Division was not created until the 15th of August 1947, the name appears in this report as figures for portions of the then Sundarbans Division which forms the 24-Parganas are only available.

Post-War Reconstruction (Development) Schemes although commenced partially during 1945-46 were taken up on a reasonable scale during the year under report. The following is a list of the schemes undertaken:—

Scheme No. 138—Afforestation in the district of Nadia.

Scheme No. 139—Rehabilitation of existing Government Forests.

Scheme No. 140—Training of technical and other personnel.

Scheme No. 141—Conservation of private forests and afforestation of private waste lands.

Scheme No. 142—Creation of a Soil Conservation Circle.

Scheme No. 143—Improvement of communications, buildings and water-supply in Government Forests.

The above may appear ambitious, but the urgency of schemes relating to conservation of soil and the protection of private forests cannot be over emphasised.

S. CHAUDHURI,

*Conservator-General of Forests, West Bengal.*

*The 7th October 1950.*



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[Note.—Figures in brackets immediately following the figures of the year under report are the previous year's figures.]

### CHAPTER I.—CONSTITUTION OF STATE FORESTS.

#### 1. Alteration in Areas (Form No. 7).

1. **Reserved Forests.**—The total area of Reserved Forests at the end of the year was 2,648 (2,648) square miles.

(a) In the Kalimpong Division the issue of the final notification under section 20 of the Indian Forests Act, 1927, for reservation of 344·59 acres of land, mentioned in the last year's report, was pending at the close of the year under report.

(b) Proceedings for acquisition of 2,000 acres of land for afforestation in the district of Nadia were commenced in December 1945, but due to shortage of staff in the Collectorate, the proceedings were confined to 25 acres on which nursery and plantation works were started during the year. Notifications Nos. 8129L.A., 8131L.A., 8133L.A. and 8135L.A. were issued for acquisition of the remaining area, viz., 1,975 acres under section 4 of the Land Acquisition Act on the 30th November 1946, but no further progress was made during the year.

2. **Protected Forests.**—The area stood at 1 (1) square mile.

3. **Unclassed State Forests.**—There were no such forests.

4. **Leased lands.**—The area of leased lands stood at 1,207 (1,207) square miles.

5. The total area of different classes of forests at the end of the year was as follows:—

Class of forests.		Area (in sq. miles.).		Percentage of the total area of the province, viz., 28,215 square miles (after partition).	
Reserve Forests	.. ..	2,648	(2,648)	9·385	(9·385)
Protected Forests	.. ..	1	(1)	·004	(·004)
Leased Land	.. ..	1,207	(1,207)	4·278	(4·278)
Total		3,856	(3,856)	13·667	(13·667)

#### 2. Forest Settlement (Form No. 8).

6. The settlement of 0·54 square mile of Dolapchen Ridge in the Kalimpong Division, which was pending at the close of the previous year, remained pending at the close of the year under report also.

#### 3. Demarcation (Form No. 9).

7. The total length of boundaries at the close of the year stood at 1,740 (1,740) miles. 791 (747) miles of the existing boundaries were repaired at a cost of Rs. 8,432 (Rs. 7,866).

#### 4. Forest Surveys (Form No. 10).

8. No special surveys were undertaken by the Survey of India. Local surveys by the Forest staff were carried out as usual.

## CHAPTER II—MANAGEMENT OF STATE FORESTS.

### 1. Regulation of Management.

#### (a) *Preparation and control of Regular Working Plans (Form No. 11).*

9. The prescriptions of the five-year working scheme of the Kalimpong Division prepared in the previous year, were followed during the year.

The draft prescriptions of the revised plans for the Jalpaiguri and the Buxa Divisions were still being followed. Plans for these two divisions could not be completed and submitted to Government for sanction, owing to shortage of staff.

A tentative working plan for the afforestation of 2,000 acres of land in the district of Nadia, Central Forest Division, was prepared by the Divisional Forest Officer, but the prescriptions could not be followed due to delay in acquisition of land.

10. Checking of Control Forms was kept in abeyance due to want of staff.

#### (b) *Preliminary Working Plan Report.*

11. No preliminary working plan report for any division was prepared or submitted during the year.

Notification under section 3(7) of the Bengal Private Forests Act, 1945, was issued on the owners of private forests in the district of Midnapore, excepting those in the Garbetta police-station, for submission of working plans for their forest areas before the 31st March 1947, but no working plans were received from them during the year except from the Midnapore Zamindary Co.

### 2. Communications and Buildings (Form No. 12).

#### (a) *Roads and Bridges.*

12. A sum of Rs. 1,51,304 (Rs. 56,882) was spent on new construction of roads, paths and bridges.

The total expenditure on repairs to roads, paths and bridges was Rs. 84,117 (Rs. 84,680).

13. The total lengths of roads and paths maintained at the end of the year were—

	Cart roads. Miles.	Bridle paths. Miles.	Other paths. Miles.
* Northern Circle .. .. .	631 (607)	612 (612)	124 (103)*

\*Correct figures.

#### (b) *Buildings.*

14. The amount spent on new construction of buildings was Rs. 3,25,491 (Rs. 63,716). A sum of Rs. 82,322 (Rs. 63,137) was spent on repairs to buildings.

#### (c) *Other works.*

15. Expenditure incurred on other new works amounted to Rs. 27,906 (Rs. 3,350). The amount spent on repairs and maintenance of wells, water-pipes, fencings, drains, upkeep of compounds, etc., was Rs. 20,390 (Rs. 16,758).

### 3. Protection of Forests.

#### (a) *General protection (Form No. 13)—Breaches of Forest Rules.*

16. The total number of forest offences was 2,414 (2,417) as compared with 2,041, the average of the past three years. The increase was due to extensive patrolling by the staff.



17. The following is a comparative statement of forest offences under different categories and the compensation realised for offences compounded under section 68 of the Indian Forest Act, 1927:—

Class of offences.	Number of cases reported during 1946-47.				Number of cases reported during 1945-46.	Average of the preceding 3 years ending 1945-46.	Difference of columns 5 and 7.	Compensation realised.	No. of persons involved.	Average to each man.
	Taken into court.	Death with D. F. Os.	Undetected cases.	Total Cases.						
1	2	3	4	5	6	7	8	9	10	11
								Rs.		Rs. a. p.
Injury to forest by fire.	..	1	26	27	60	44	- 17	19,525	4,194	4 10 6
Unauthorised felling	34	463	8	505	508	291	+ 214			
Unauthorised grazing	..	707	1	708	658	599	+ 109			
Other offences ..	30	1,137	7	1,174	1,182	1,107	+ 67			
Total ..	64	2,308	42	2,414	2,417	2,041	+ 373	..	..	..

18. The percentage of increase as compared with the average of the preceding three years was 15.5. The increase under "Injury to forest by fire" was due to prolonged spell of dry weather. The decrease under "Unauthorised grazing" was due to stricter control by the staff. The increase under "Other offences" was mainly due to the reorganisation and the strengthening of boundary patrols and greater vigilance on the part of the subordinate staff.

19. The "Other offences" numbering 1,174 (1,182) consisted of—

Categories.	No. of cases
(i) Illicit removal of forest produce ..	547
(ii) Violation of conditions laid down in permits ..	214
(iii) Illicit hunting and shooting ...	18
(iv) Illicit fishing ...	78
(v) Miscellaneous ...	317
Total ...	1,174

20. The number of cases disposed of during the year was Rs. 2,323 (2,029) including 83 (76) cases pending from the previous year. 132 (78) cases remained undisposed of during the year. The total number of cases taken into court was 92 (27) including 28 (1) pending from previous year. Of these, 19 (4) cases involving 39 (7) persons resulted in conviction and 5 cases involving 7 persons resulted in acquittals. Sixty-eight (23) cases remained pending at the close of the year.

21. Under section 68 of the Indian Forest Act, 1927, the Divisional Forest Officers compounded 2,290 (2,022) cases involving 4,194 (3,342) persons and realised Rs. 19,525 (Rs. 14,652) as compensation and 9 (3) cases involving 24 (14) persons were let off. Sixty-four (55) cases remained undisposed of at the close of the year.

(b) *Fire protection (Forms Nos. 14 and 15).*

22. Special measures for protection from fire were undertaken over 375,041 (375,068) acres, out of which, 1,296 (11,540) acres were burnt. The percentage of success was 99.7 (96.9). The expenditure incurred in this connection was Rs. 10,048 (Rs. 9,495).

Nepal and Sikkim portions of the frontier fire lines were cleared as usual by the respective Darbars.

The Darjeeling Himalayan Railway Co. cleared the fire traces above the Tista Valley Railway lines from Geillekhola to Riang. The scheme for spark-arrester for the Darjeeling Himalayan Railway engines could not be given effect to, mainly due to paucity of funds.

(c) *Regulation of grazing by cattle (Forms Nos. 16 and 17).*

23. Two thousand four hundred and eighty-two (2,482) square miles of forests were entirely closed to grazing. One hundred and sixty-four (164) square miles were open to grazing throughout the year and 3 (3) square miles for part of the year for non-browsers only.

24. Three thousand one hundred and eighty-two (2,767) cattle were impounded during the year under report.

25. Number of cattle stall-fed in the Darjeeling and the Kurseong Divisions was 295 (299). There were 10 (10) Government *bathans* in the Darjeeling Division used for stall-feeding. In the Buxa Division privileged grazing was permitted in closed areas to milch and plough cattle belonging to Forest villagers and to draught cattle engaged by the coupe purchasers for extraction of timber.

(d) *Injuries from natural causes and protective measures undertaken.*

26. (I) *Insects*.—Odd trees in the *champ* plantations at Kundong in the Kurseong Division continued to be damaged by insects. (*Champ* bug—*Urostylis punctigera*.)

(II) *Borers and defoliators*.—In the Jalpaiguri and the Buxa Divisions *sal* borer (*Hoplocerambyx spinicornis*) was noticed in small numbers on dead and fallen *sal* trees. In the Kurseong Division defoliators did certain amount of damage to plantations in Sukna Range.

(III) *Fungi*.—In the Jalpaiguri Division groups of *sal* trees were killed by root fungi in localities with unfavourable soil conditions. In the Buxa Division fungi were found active in some older plantations in moist places.

(IV) *Loranthus*.—The pest continued to attack plantations and high forests in both the Jalpaiguri and the Buxa Divisions. Eradication by cutting the *Loranthus*—attacked branches was attempted.

(V) *Weeds*.—Normal weedings were carried out in all plantations.

(VI) *Climbers*.—Climbers were cut in the usual way according to the prescriptions of the Working Plans, as far as funds permitted, with beneficial effect.

(VII) *Wild animals*.—Deer, bison, monkey, elephant, wild pig, etc., caused, as usual, sporadic damage to plantations occasionally. Wire fences, where such are used, were repaired as required.

(VIII) *Earthquake*.—None reported.

(IX) *Landslips*.—In the Darjeeling Division landslide at Paglajhora in Little Rangit block of the Tonglu Range on the Manibhanjang-Batasi Cart Road continued to extend frequently blocking cart and mule traffic. Another landslide occurred in the South Rimbiok Block of the Singalila Range causing serious damage to the 1927 plantation, and a Forest villager's house and a cow were buried. Fortunately there was none in the house at the

time. A check dam was constructed at Gorkhay slip. Minor landslips occurred in several other places both in the Darjeeling and the Kalimpong Divisions.

In the Kalimpong Division various protective works designed to stabilise the land were carried out with success. In addition to these, planting and sowing were also undertaken.

(X) *Wind and cyclone*.—None reported.

(XI) *Frost and snow*.—In the Hill Forests of the Darjeeling Division, frost did some damage to young plantations, but the damage was not so serious.

(XII) *Erosion*.—In the Kurseong Division, the Tista river eroded about 40 acres of Samardanga Block in the Sevoke Range, and the Mechi river damaged a considerable portion of Lohagarh Block. No protective measures could be undertaken to prevent erosion.

In the Jalpaiguri Division the Tista river continued eroding the Chengmari Forest. About 173 acres were washed away. The main current of the river is at present along the Chengmari Forest and further erosion is threatening.

The Chel river changed its course due to the protection *bund* along the bank; the *bund* was repaired and strengthened during the year under report.

In the Buxa Division, the Turturi river caused considerable damage to the Dhowla-Bhutanghat Road. Protective measures were undertaken to guard against further damage. The Torsa river changed its course to the Malangi during the year causing considerable damage to the Chilapata forests. There was also erosion along the eastern bank of the Torsa river as in the previous year, causing damage to the Game Sanctuary.

(XIII) *Drought*.—No damage was reported.

(XIV) *Hail*.—Hail storms caused some damage both to agricultural and forest crops in the Singalila Range during the spring.

### CHAPTER III—SILVICULTURE

#### I.—System of management.

27. The table below shows the various silvicultural systems that were in force during the year under report:—

Silvicultural systems.				Area in sq. miles.	Percentage of the total area
(i) Clear felling followed by artificial re-stocking	...	...	...	544	20·7
(ii) Simple coppice	...	...	...	12	0·5
(iii) Selection and improvement fellings	...	...	...	1,954	74·3
(iv) Protection forests with no regular prescriptions for fellings	...	...	...	119	4·5
Total				2,629	100·0

#### II.—Afforestation and regeneration (Form No. 18).

28. In the Kalimpong Division afforestation work was undertaken in two areas, viz., (i) Development Area Protected Forests comprising an area of 173·01 acres, scattered in 16 small plots, and (ii) Dolapchen Slip Reserve which is a compact area of 188·18 acres. The details of work carried out in each of these areas are given below:—

(i) *Development Area Protected Forests*.—Apart from protective works, the raising of plantations by sowing and transplanting was carried out with fast growing species, e.g., *utis* (*Alnus nepalensis*), *saur* (*Betula spp.*),

*khanakpa* (*Evodia fraxinifolia* and *Evodia meliifolia*), *pipli* (*Bucklandia populnea*), cherry, *malata* (*Macaranga spp.*), etc. So far an area of 120.45 (revised figures) acres was planted up including 13.13 acres taken up during the year under report. The total cost of raising new plantations over 13.13 acres and maintaining old areas by filling up vacancies, raising seedlings in nurseries and pay of malis, was Rs. 2,303 (Rs. 2,026).

Protective works, such as construction of revetment walls, check dams, drains, etc., were undertaken at a cost of Rs. 4,375 (Rs. 1,031).

(ii) *Dolapchen Slip Reserve*.—The entire area was planted up previously, but due to slips, erosion, and subsidence of the hill-sides, failures occurred. In order to fill up vacancies, a nursery was maintained to raise seedlings for transplanting. Cleaning and filling up vacancies were undertaken during the year and the cost incurred was Rs. 1,716 (Rs. 1,908) including pay of mali. Fast growing species, such as *pipli* (*Bucklandia populnea*), *utis* (*Alnus nepalensis*), *saur* (*Betula spp.*), *Khanakpa* (*Evodia spp.*), etc., were tried, but there was a number of casualties; the filling up of vacancies was carried on during the rains.

Protective works were also undertaken and the expenditure incurred was Rs. 2,587 (Rs. 2,077) apart from the maintenance of boundaries and fencing.

In the West Bengal Forest Division two experimental nurseries were established at Contai and Digba in the district of Midnapore under Post-War Reconstruction Scheme, for testing suitability of the different species for growth under local conditions and to encourage the local people in the habit of tree-planting. Seedlings were distributed among the local people. In addition, two plantations of *jhao* (*casuarina*) were raised in the Midnapore district—one over one acre at Junput and the other over two acres at Digba. A nursery was also established for planting up test plots for anti-erosion experiments at Arabari in the said district.

### III.—Establishment of Reproduction (Form No. 18).

#### (a) *Mainly natural.*

29. No natural reproduction of *sal* (*Shorea robusta*) was noticed in the forests of the Jalpaiguri Division. Two thousand four hundred and twenty-nine acres of fuel coupe felled in the said division was allowed to regenerate by coppice.

In the Buxa Division natural regeneration of various species, such as *kadam* (*Anthocephalus indicus*), *malata* (*Macaranga denticulata*), *bahera* (*Terminalia bclerica*), *siris* (*Albizia spp.*) were found to come up along with the artificial regeneration of *jarul* (*Lagerstroemia flos-reginae*), *siris* (*Albizia spp.*), teak (*Tectona grandis*), etc.

#### (b) *Mainly artificial.*

30. Clear-felling followed by artificial regeneration in conjunction with *taungya* was the main system of re-stocking in the Northern Circle. Two thousand three hundred and twenty-five (2,264) acres of new plantations were added during the year.

### IV.—Tending.

31. Climber-cutting, weeding, thinnings and general upkeep of the existing plantations were carried out as far as funds and labour permitted.

32. **Cost.**—The cost of afforestation and regeneration including the upkeep of the existing plantations, was Rs. 1,46,803 (Rs. 1,04,816).

### V.—General.

33. This was a good seed year for all species. The natural-cum-artificial regeneration plots at Raimatong progressed reasonably well.

## CHAPTER IV—EXPLOITATION.

34. **Outturn of Forest Produce (Forms Nos. 19 and 20).**—The following statement shows the total outturn of Forest produce:—

Particulars.		1946-47.		1945-46.	
Timber (in thousands of c.ft.)	.. ..	3,705		3,631	
Fuel (in thousands of c.ft.)	.. ..	12,445		14,252	
		Number or quantity.	Value. Rs.	Number or quantity.	Value. Rs.
<i>Minor forest produce.</i>					
Bamboos (Nos. in thousands)	.. ..	1,565	10,484	2,348	10,594
Golpatta (maunds)	.. ..	27,075	1,664	12,150	728
Other types	.. ..	.. ..	1,07,633	.. ..	1,39,354

The increase under timber and *golpatta* was due to better facilities for transport than those in the previous year.

The decrease under fuel, bamboos and other types was due to less demands owing to general depression.

35. **Extraction by departmental agency (Forms Nos. 21 and 22).**—

(i) *Timber.*—The following statement shows the outturn of timber extracted departmentally during the year and the approximate financial results neglecting outstanding and end of year adjustment:—

Particulars.	Northern Circle.	Southern Circle.	Total.	
			1946-47.	1945-46.
	C.ft.	C.ft.	C.ft.	C.ft.
(a) Cut or extracted or otherwise received into departmental stock.	505,158	..	505,158	964,251
	Rs.	Rs.	Rs.	Rs.
(b) Corresponding expenditure on departmental extraction (A. I. a.).	4,14,152	..	4,14,152	7,26,608
	as. p.	as.	as. p.	as. p.
(c) Approximate average direct cost per c.ft.	13 1·4	..	13 1·4	12 0·6
	C.ft.	C.ft.	C.ft.	C.ft.
(d) Sold or otherwise disposed of	601,068	..	601,068	1,184,704
	Rs.	Rs.	Rs.	Rs.
(e) Value of sales of departmentally extracted timber (Form 26, R. I. a.).	9,65,974	..	9,65,974	16,43,503
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(f) Approximate average price per c.ft.	1 9 8·5	..	1 9 8·5	1 6 2·4
(g) Average gross surplus per c.ft.	.. 0 12 7·1	..	1 12 7·1	0 10 1·8

(ii) *Fuel, bamboos and minor produce.*—The following table shows the results on the year working:—

Particulars.	Northern Circle.	Southern Circle.	Total.	
			1946-47.	1945-46.
	Rs.	Rs.	Rs.	Rs.
(a) Value of sales of fuel, bamboos and minor produce extracted departmentally (Form No. 26, R. I. b., R. I. c. and R. I. d.).	1,23,106	..	1,23,106	2,00,180
(b) Expenditure on departmental extraction of fuel and minor produce (A. I. b., A. I. d. and A. I. e.).	1,01,406	..	1,01,406	1,30,185
(c) Net gross surplus or deficit	.. + 21,700	..	+ 21,700	+ 69,995

**36. Siliguri Saw Mill.**—The working of the mill during the year was satisfactory in that it resulted in a net profit of Rs. 2,43,210-12-11 against Rs. 2,55,878-10-8 in 1945-46, Rs. 1,40,036-1-6 in 1944-45, Rs. 1,00,467-0-7 in 1943-44, Rs. 25,976-5-2 in 1942-43 and Rs. 19,304-9-3 in 1941-42. The decrease in profit during the year under report from that of the previous year was due to a smaller quantity of timber being available for sawing in the mill owing to difficulty in extraction of logs. The cost of production also went up from 8.54 annas per cubic foot in 1945-46 to 11.10 annas per cubic foot in 1946-47 due to the rise in the cost of log extraction.

The percentage of wastage was 26.43 against 23.92 in 1945-46. The utilisation of a huge quantity of defective logs and sawing of timber to definite sizes according to orders received, were responsible for the increase in the rate of wastage.

The total outturn of sawn timber was 184,193 c.ft. (300,140 c.ft.) and the total quantity sold amounted to 173,400 c.ft. (284,648 c.ft.). The closing balance of sawn timber in stock on the 31st March 1947 was 53,811 c.ft. (41,569 c.ft.).

**37. Log Depots.**—The log depots were brought under the direct control of the Siliguri Saw Mill and Timber Depot Subdivision and all expenditure incurred thereon, incorporated in the Subdivisional accounts, the maintenance of a separate profit and loss account for the depots being considered unnecessary.

**38. Extraction by purchasers.**—(i) *Timber and Fuel.*—Timber and Fuel were sold by auction at valuation based on estimated outturn and royalty rates and on permits at scheduled rates. The following statement summarises the year's working results neglecting outstandings and end of year adjustments:—

Particulars.	Northern Circle.	Southern Circle.	Total.	
			1946-47.	1945-46.
<i>Timber.</i>				
(a) Volume extracted by purchasers (in thousands of c.ft.).	1,995	1,192	3,187	2,643
	Rs.	Rs.	Rs.	Rs.
(b) Value of sales of timber to purchasers (Form No. 26, R. II. a).	17,61,361	48,243	19,09,604	12,67,167
	As. p.	As. p.	As. p.	As. p.
(c) Approximate average royalty per c.ft.	14 1.5	0 7.8	9 1.0	7 8.1
<i>Fuel.</i>				
(a) Volume extracted by purchasers (in thousands of c.ft. solid).	10,579	1,050	11,629	13,065
	Rs.	Rs.	Rs.	Rs.
(b) Value of sales of fuel to purchasers (Form No. 26, R. II. b.).	3,07,545	40,354	3,47,899	3,61,693
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(c) Approximate average royalty per 100 c.ft. stacked or 50 c.ft. solid.	1 7 3.1	1 14 9	1 7 11.2	1 6 1.8

(ii) *Minor produce.*—Bamboos and other minor produce were sold to purchasers mostly under permits at scheduled rates. Details of the revenue realised on various items are shown in Form No. 20. The value of sales during the year was Rs. 1,09,189 (Rs. 1,22,038).

**39. Rights and privileges.**—There were no rights in the reserved forests under the management of this Directorate, but there were certain concessions. The Manager of the Government Chichona Plantation at Munsong enjoyed the privilege of issuing himself free permits for forest produce required for his plantations. The khas mahal tenants obtained

free supplies of leaf mould and were allowed grazing at concession rates, and the khas mahal mandals allowed free grazing to the extent of 7 cows per head.

40. **Free grants, etc.**—The following statement shows the quantity and/or value of forest produce given either free of royalty or at concession rates and furnishes the information required under the Inspector-General of Forests' circular No. 9-113-7, dated the 26th June 1911:—

Particulars.	Timber.		Fuel.		Bamboos.	Value.		Total value.
	Cubic feet.	Value.	Cubic feet.	Value.		Grass and grazing.	Other minor produce.	
		Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
To right holders ..	..	..	..	..	..	..	..	..
To free grantees ..	13,308	551	276,084	6,703	91	2,019	1,824	11,188
Grant at reduced or concession rates.	..	..	..	..	..	7,088	..	7,088
Total grant free or at concession rates in 1946-47.	13,308	551	276,084	6,703	91	9,107	1,824	18,276
Total grant free or at concession rates in 1945-46.	24,132	1,855	284,083	9,157	..	8,656	894	20,562

41. The undermentioned species and quantities of Forest produce were reported to have been consumed by the Manager of the Experimental Cinchona Plantation in Rongo Block of the Kalimpong Division amounting to a total value of Rs. 2,444-7-6 (Rs. 2,387-5):—

Produce.	Nos.	Cubic feet.	Value.		
			Rs.	a.	p.
<i>Panisaj (Terminalia myriocarpa)</i> .. ..	21	2,128.0	532	0	0
<i>Katus (Castanopsis hystrix)</i> .. ..	2	168.5	42	2	0
<i>Musre katus (Castanopsis tribuloides)</i> .. ..	29	1,555.0	145	13	0
<i>Dalus katus (Castanopsis indica)</i> .. ..	1	1,137.5	12	14	6
<i>Champ (Michelia champaca)</i> .. ..	1	265.0	115	15	0
<i>Kawla (Machilus spp.)</i> .. ..	4	175.5	21	15	0
<i>Chilauni (Schima wallichii)</i> .. ..	4	185.5	17	7	6
<i>Mowa (Engelhardtia spicata)</i> .. ..	3	128.0	12	0	0
Miscellaneous poles .. ..	1,040	..	80	0	0
Firewood, green .. ..	..	5,000.0	50	0	0
Firewood, dry, (in cooly loads) .. ..	12,000	..	375	0	0
Bamboos, large .. ..	1,525	..	15	4	6
Bamboos, small .. ..	1,29,000	..	398	0	0
Leaf mould (in cooly loads) .. ..	8,000	..	500	0	0
Cane, unsplit (in cooly loads) .. ..	168	..	126	0	0
<b>Total</b> .. ..	..	..	<b>2,444</b>	<b>7</b>	<b>6</b>

42. **Grants to Forest villagers.**—The estimated value of forest produce granted free of royalty to the Forest villagers in the Northern Circle during the year in return of free labour supplied in sowing, planting, weeding, etc., in the plantations, is shown in the table below:—

Division.	Timber.	Fuel.	Bamboos.	Grazing and fodder.	Minor produce.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Darjeeling .. ..	..	1,875	656	1,021	847	4,399
Kalimpong .. ..	1,527	1,175	91	1,832	93	4,718
Kurseong .. ..	..	297	..	7	..	304
Jalpaiguri .. ..	40	847	..	..	..	887
Buxa .. ..	440	1,150	..	..	..	1,590
Total .. ..	2,007 (1,855)	5,344 (5,483)	747 (442)	2,860 (1,679)	940 (384)	11,898 (9,843)

### CHAPTER V—FINANCIAL RESULTS.

43. The following statement summarises the revenue and expenditure of the year under report:—

Particulars.	(a) 1946-47. Rs.	(b) 1945-46. Rs.
Revenue .. ..	34,61,003	39,41,080
Expenditure—		
A.—Conservancy and Works .. ..	17,17,266	37,43,962
* Deduct—A-VIII—Amount recoverable from other Governments, Departments, etc.	5,15,686	22,00,141
Net expenditure under "A" .. ..	12,01,580	15,43,821
B.—Establishment .. ..	13,01,786	11,60,066
D.—Charges in England .. ..	88,530	50,612
E.—Loss or gain by exchange .. ..	..	89
F.—Special Development Programme .. ..	7,75,410	..
Total expenditure .. ..	33,67,306	27,54,588
Surplus .. ..	93,697	11,86,492

\* Note.—These amounts mostly consist of recoveries from the Supply Department of the Government of India on account of the price of timber purchased from the trade.

The decrease in revenue was due to suspension of timber for war purposes.

The decrease in expenditure under "A—Conservancy and Works" was mainly due to no purchase of timber for war purposes.

The increase in expenditure under "B—Establishment" was mainly due to grant of interim pay.

(a) Vide Appendix I.

(b) Vide Appendix II.

44. The prescribed analysis of the receipts and expenditure shows that of the receipts 92·7 (89·5) per cent. came from major produce, 2·5 (2·7) per cent. from minor produce, 0·6 (0·8) per cent. from grazing, 4·8 (7·6) per cent. from miscellaneous sources and 0·6 (0·6) went out as refunds, while of the expenditure 17·7 (33·7) per cent. was spent on extraction, 7·7 (11·9) per cent. on roads and buildings, 0·3 (0·4) per cent. on fire protection, 3·1 (3·6) per cent. on cultural operations, 1·4 (1·4) per cent. on live-stock, stores and plants, 0·2 (0·2) per cent. on Working Plans, 5·3 (4·9) per cent. on miscellaneous works and 38·7 (42·1) per cent. on administration, 2·6 (1·8) per cent. on charges in England and 23·0 (nil) per cent. on Special Development Programme.



45. The outstanding revenue\* at the close of the year amounted to Rs. 2,98,085 (Rs. 2,85,815) against Rs. 2,85,815 (Rs. 2,60,724), *vide* Form No. 26.

46. The balance of timber, fuel, bamboos and other minor produce in stock at forest and sales depots and the value thereof are shown in Forms No. 21 and No. 22. The net difference against the year was Rs. 1,08,811.

47. Form No. 23, which is an abstract of the value of live and dead stock, shows a balance of Rs. 4,22,625 in favour of the year.

48. The outstandings due by contractors and disbursers relating to the Forest Divisions which have fallen in West Bengal, amounted to Rs. 4,968 at the commencement and Rs. 8,868 at the close of the year, *vide* Form No. 27.

## CHAPTER VI—RESEARCH AND EXPERIMENTS.

### Silviculture.

49. (1) **General.**—The work was carried out in accordance with the programme sanctioned for the year.

(2) **Experimental Silviculture.**—(A) *Sal* (*Shorea robusta*). *Forests.*—(i) *Natural regeneration.*—Experiment on natural regeneration of various types of *sal* forests in North Bengal were continued on the lines of Kamrup method. Results of recruitments were not satisfactory. Regeneration of *sal* by this method proved to be a failure. On the other hand gradual opening up of the canopy and rains weeding followed by fire protection at Raimatong, Buxa Division, gave good results.

(ii) *Natural-cum-artificial.*—Younger plants up to 10 feet at Raimatong, Buxa Division, were cut back after the accidental fire burning by the end of March. Rains and winter cleanings were carried with good results, at a cost of Rs. 5 per acre.

In Bengal, the problem of *sal* natural regeneration is not of great urgency as *sal* grown in plantations is fast, there is no delay in establishment and the work is concentrated and thus the cost of plantations by the *taungya* method is probably not more expensive than natural regeneration and the present labour force is almost sufficient in most divisions to plant up to the full prescriptions of the Working Plan.

(B) *Miscellaneous species forests.*—*Assisted Natural Regeneration.*—Mixed seeds of fast-growing miscellaneous species were broadcast over certain areas in May and June to aid natural regeneration in fuel coupes in the Buxa Division. Results obtained so far were not satisfactory as rains, weeding and cleaning could not be done as intensely and frequently as required due to paucity of labour.

(C) *Riverain Forests.*—The experiments started in 1936 in the Buxa and the Jalpaiguri Divisions to study the effect of controlled burning on the existing of *khair* (*Acacia catechuoides*) and *sissu* (*Dalbergia sissoo*) in the savannah areas of the riverain forests and to induce natural regeneration, proved a failure; so the experiments were discontinued. No fresh work was undertaken in this type of forests in the year under report. The problem of availability of thatch in the country was acute. It was essential to maintain and improve thatchy areas instead of attempting natural regeneration of woody species in this type of forests.

(D) *Tidal Forests.*—The following species were tried in the nursery at Contai, Midnapore Division. They germinated well and showed satisfactory results towards the year under report:—

- (i) *Casuarina equisetifolia*, (ii) *Cassia siamea*, (iii) *Acacia spp.*, (iv) *Swietenia spp.*, (v) *Azadirachta indica*, (vi) *Acacia arabica*, (vii) *Terminalia arjuna*, (viii) *Pongamia glabra*, (ix) *Tectona grandis* (x) *bambusa arundinacea*, (xi) *Engenia spp.*, (xii) *Mangifera indica*.

In the nursery at Digha, Midnapore Division, *Casuarina equisetifolia* was doing well.

Plantations of *casuarina* at 8 ft. by 8 ft. were raised on the seashore on a two-acre plot at Digha and an one-acre plot at Junput, Midnapore Division, with the transplants from the Contai Nursery. Both the plantations were doing fairly well.

The following *Rhizophora* species were tried at Balushai, Midnapore Division, about 3 miles away from the sea, but the germination was not satisfactory due to the increased percentage of mortality in the hot weather:—

- (i) *Carapa moluccensis* (pussur).
- (ii) *Ceriops roxburghiana* (goran).
- (iii) *Heritiera minor* (sundri).
- (iv) *Avicennia officinalis* (baen).

(3) **Nursery work.**—Three nurseries with gardens in the following localities of varying elevations in the Northern Circle were maintained by the Silvicultural Division during the year under report. Routine tests on the relative suitability of shaded and unshaded beds for each species, both exotic and indigenous, were carried out; relative merits of direct sowing, transplanting in the rains and in the winter, and stump planting for each species with or without a cover crop, were continued. A list of successful species grown is given below:—

- (i) Sukna (elevation 500 feet, rainfall 150 inches).—*Aleurites fordii*, *Cassia siamea*, *Chlorophora excelsa*, *Dalbergia cultrata*, *Sterculia alata*, *Santalum album*, *Xylia dolabriformis*, *Thyrostachys oliveri*, *Cinnomonum camphora*.
- (ii) Takdah (elevation 5,300 feet, rainfall 140 inches).—*Cupressus patula*, *Pinus lawsoniana*, *Pinus excelsa*, *Cupressus torulosa*, *Cupressus lusitanica*, *Cupressus cashmiriana*, *Tsuga brunoniana*, *Juniperus virginiana*, *Widdringtonia wightii*, *Thuja plicata*, *Chomacyparis lawsoniana*, *Picea morinda*, *Hovenia dulcis*, *Betula alnoides*, *Betula cylindrostachys*, *Prunus cerasoides*.

- (iii) Ramam (elevation 7,950 feet, rainfall 100 inches).—No observation could be made during the year due to shortage of staff.

(4) **Artificial Regeneration.**—(A) *Wet Plains Sal Forests (Eastern Terai Type)*.—(i) The growth of *sal* was on the whole satisfactory in all plantations of Northern Circle, especially on well drained soil.

*Loranthus* attack in *sal* plantations still continued in the Jalpaiguri Division but this pest could be eradicated by cutting the attacked branches, which was costly.

(ii) *Jarul (Lagerstroemia flos-reginac)* continued to be a favourite species specially for low areas. Teak (*Tectona grandis*) was found to establish itself in the drier type of *sal* area. Stumps of *jarul* were planted in marshy places at an elevation of 3,800 feet to 4,000 feet in the Kalimpong Division with poor result.

(iii) Softwood species, viz., *pitali (Trewia nudiflora)*, *simal (Bombax malabaricum)* and *kadam (Anthocephalus indicus)* were planted in the Short Rotation Miscellaneous Working Circle with good results. But *pitali* and *simal* in places were damaged by deer.

(iv) Miscellaneous species, viz., Tung oil (*Aleurites spp.*), teak (*Tectona grandis*), *Cinchona ledgeriana*, *Cinchona succirubra* and *Coffea robusta* var. were tried in the Kalimpong Division with disappointing result, with the exception of *Aleurites spp.* in the afforestation area.

(B) *Upper, Middle and Lower Hill Forests of Darjeeling district.*—  
(i) Upper Hill Forests (elevation 7,000 feet and up).—The exotic spp., e.g., *Larix leptolepis*, *Pinus patula*, *Cupressus lusitanea*, *Thuja plicata*, *Juniperus virginiana*, *Thuja orientalis*, *Cupressus torulosa*, *Cupressus cashmiriana*, *Picea morinda*, *Pinus thunbergii*, were doing well. *Cedrus deodara*, *Podocarpus thunbergii*, were not thriving well.

The indigenous spp., e.g., oaks (*Quercus lineata*), *Quercus lamellosa* and *Quercus spicata*, *kavlas* (*Machilus edulis*, *Machilus odoratissima*, *champ* (*Michelia excelsa*) were growing satisfactorily.

Kikuya grass were doing fairly well.

(ii) Middle Hill Forests (elevation 4,500 feet to 7,000 feet).—*Machilus gannicana*, *Acer campbellii*, *Quercus semiserrata* did well.

Experimental sowing with nurse crop of *Betula cylindrostachys*, *Alnus nepalensis* and *Prunus nepalensis* were started.

Kikuya grass looked promising.

(iii) Lower Hill forests (elevation up to 4,500 feet).—*Cedrela toona*, *Boehmeria rugulosa*, *Artocarpus chaplasha*, *Ailanthus grandis* were growing well. *Tectona grandis* and *Dalbergia sissoo* showed no promise. *Cryptostegia grandiflora* was a complete failure.

(C) *Nadia Waste Land.*—The object for nursery and plantations in the district of Nadia was to determine the suitability of different species for afforestation of the waste lands in the district. The species tried in the nursery were teak (*Tectona grandis*), *sisso* (*Dalbergia sissoo*), *minjri* (*Cassia siamea*) mahogany (*Swietenia macrophylla*), *muli* bamboos (*Melocanna bambusoides*) and *sabai* grass. Teak, *minjri* and *sisso* were doing very well. *Muli* bamboos and *sabai* grass planted in May did not survive due to drought, but *muli* bamboos planted in August survived.

Teak, *sal* (*Shorea robusta*), *sisso*, *jam* (*Eugenia spp.*), *simal* (*Bombax malabaricum*), *pitali* (*Treulia spp.*), *nim* (*Melia azadirachta*), *kanthal* (*Artocarpus integrifolia*), *chopalish* (*Artocarpus chaplasha*), *minjri* and *muli* bamboos were tried in plantations. Teak, *minjri*, *jam* and *sisso* did well. *Pitali* and *chopalish* were unexpectedly poor. *Sabai* grass and *muli* bamboos survived with partial success.

(5) *Miscellaneous.*—(i) *Pyrethrum* (*Chrysanthemum cinerariaefolium*) germinated well in the Darjeeling Division in shaded nursery beds, but appeared to thrive in unshaded beds. Plants raised in the nursery were coppiced after plucking the flowers, but they could not withstand the impact of coppicing and as a result all coppiced plants died.

An experiment on the planting of 200 *pyrethrum* was undertaken under the shade of trees in natural forests, at Ramam, Darjeeling Division, but not a single plant survived.

(ii) *Cryptostegia grandiflora* plants in the experimental plot in the Kurseong Division did not look promising.

(iii) *Preservation Plots.*—The existing Preservation Plots, 28 in number, were maintained.

(iv) Linear Sample Plots, 19 in number, were all kept up.

(v) Phenological observations on *Tectona grandis* were made and recorded.

(6) *Statistics.*—Routine measurements of scientific plots were carried out as usual and records of the plots requiring computation of volume figures were sent to the Central Silviculturist, Forest Research Institute, Dehra Dun, for the purpose. Copies of other measurements, notes and observations taken on the experimental plots were also sent to the Central Silviculturist for his information and record. Observations and measurements in the Silvicultural Nurseries and Gardens were made and recorded.

There were 338 scientific plots at the end of the year as detailed below:—

Sample Plots	...	...	...	...	193
Diameter Increment Plots	....	...	...	...	32
Experimental Plots	...	...	...	...	61
Preservation Plots	...	...	...	...	28
Linear Sample Plots	...	...	...	...	19
Garden Plot	...	...	...	...	1
Botanical Line	...	...	...	...	1
Girth Increment Plot	...	...	...	...	3
				Total	338

(7) **Records.**—General and Scientific Ledger Files numbered 235 and 300, respectively.

#### Utilisation.

50. The Divisional Forest Officer, Utilisation Division, assisted generally in the work of direction and liaison connected with the supplies of timber, etc., to Railways and other parties from the Territorial Divisions during the year. The statement below shows the orders received and supplies of timber made through the medium of the Utilisation Division during the year—

	Balance B.F. from 1945-46	Orders received during 1946-47.	Total.	Supplies made during 1946-47.	Orders cancelled during 1946-47.	Balance at the close of 1946-47.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Round timber	..	3,514	3,514	584	..	2,930
Sawn timber	..	1,349	1,349	621	..	728
	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.
Sleepers	110,315	94,618	204,933	111,950	55,111	37,872
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
	4,532	3,779	8,311	4,550	2,055	1,705

#### CHAPTER VII—ADMINISTRATION.

51. **Chief Conservator of Forests.**—Mr. T. M. Coffey, C.I.E., I.F.S., held the charge throughout the year except for the period 2nd to 30th December 1946 when he was on leave and Mr. S. J. Curtis, O.B.E., M.C., I.F.S., held the charge.

52. **Charges of Forest Circles.**—(i) *Northern Circle.*—Mr. F. J. A. Hart, O.B.E., I.F.S., held charge throughout the year.

(ii) *Southern Circle*.—The following officers held charge for the period noted against each :—

- (a) Mr. S. J. Curtis, O.B.E., M.C., I.F.S., from 1st April 1946 to 10th May 1946.
- (b) Mr. F. J. A. Hart, O.B.E., I.F.S., from 11th May 1946 to 20th May 1946 (in addition to his own duties as Conservator of Forests, Northern Circle).
- (c) Mr. D. A. G. Davidson, I.F.S., from 21st May 1946 to 5th December 1946.
- (d) Mr. R. I. Macalpine, I.F.S., from 6th December 1946 to 4th January 1947.
- (e) Sri S. Chaudhuri, I.F.S., from 5th January 1947 to 30th January 1947.
- (f) Mr. W. E. Hodge, I.F.S., from 31st January 1947 to end of the year.

(iii) *Development Circle*.—The charge was held by the following officers for the period as noted against each :—

- (a) Mr. W. E. Hodge, I.F.S., from 1st April 1946 to 13th August 1946.
- (b) Mr. C. T. Trigg, I.F.S., from 14th August 1946 to 20th November 1946.
- (c) Mr. S. J. Curtis, O.B.E., M.C., I.F.S., from 21st November 1946 to 30th November 1946 and from 31st December 1946 to end of the year.
- (d) Sri S. Chaudhuri, I.F.S., from 1st December 1946 to 30th December 1946.

53. **Reorganisation of the Subordinate Forest Service**.—A proposal to this effect was under the consideration of Government.

54. **Divisional permanent clerical staff**.—Proposals for increasing the number of permanent clerical posts and for the creation of permanent posts of Accountants in the Divisional Forest Offices, which were submitted in the previous years, remained under the consideration of Government at the close of the year under report.

55. **General organisation**.—The inadequacy of trained staff existed as before. The great preponderance of untrained staff over trained Foresters caused much difficulty in administration and lowered efficiency in general.

56. **Deputation**.—Sri K. L. Lahiri, Deputy Conservator of Forests, who was sent for a course of Advance Forestry Training at Oxford for a period of 8 months from January 1946, returned during the year under report on completion of the training. He was then deputed to the Forest Research Institute and Colleges, Dehra Dun, from the middle of October 1946 and remained on deputation till the end of the year.

The services of Sri T. T. Samdup, Forester, were transferred to the Central Intelligence Bureau, Shillong, under the Government of India from the middle of January 1947.

57. **Temporary posts entertained in connection with Post-War Reconstruction Schemes**.—The post of an additional Instructor with menial staff was sanctioned for the Bengal Forest School during the year owing to the expansion of the School for training more Foresters required for implementation of the Post-War Reconstruction Schemes.

58. **Mahouts and Grass-cutters**.—Government in their order No. 586-For., dated the 7th June 1946, sanctioned the conversion of the posts of

Mahouts and Grass-cutters employed under the Forest Directorate, and so long borne on the Work-charged Establishment, into Temporary Establishment Menials on the following scales of pay with effect from the 1st January 1946:—

- (i) Mahout—Rs. 20—1/2—25.  
(ii) Grass-cutter—Rs. 13—1/5—17.

59. **Bengal Forest School.**—Twenty-seven (19) students, including three from Native estates—one from Sikkim, one from Tripura and one from Cooh Behar States—underwent the Foresters' Course, 1945-46. Twenty-three students came out successful including one with honours and four failed. The general standard was average.

Forty Foresters (14)—2 from the Darjeeling Division, 2 from the Kurseong Division, 5 from the Jalpaiguri Division, 5 from the Buxa Division, 6 from the Sundarbans Division, 7 from the Chittagong Division, 5 from the Chittagong Hill Tracts Division, 6 from the Dacca-Mymensingh Division, 1 from the West Bengal Division and 1 from the Sikkim State—were deputed to the Bengal Forest School for training in the 1946-47 Foresters' Course.

Sri S. Sitling, B.S.F.S., held the charge of the School Division as Director up to the 6th May 1946 when he was relieved by Mr. E. A. C. Modder, I.F.S. (Retired), who on re-employment held the charge till the end of the year. Janab Idris Hossain, Forest Ranger, was the Instructor throughout the year and Janab Maziruddin Ahmed No. 2, Forest Ranger, was the Second Instructor sanctioned with effect from the 1st November 1946.

60. **Advisory Committee of the Bengal Forest School.**—The Advisory Committee met on the 4th May and the 11th October 1946, and passed certain resolutions which led to the more efficient running of the school.

61. **Retirements, casualties, etc.**—(i) *Gazetted Officers.*—The under-mentioned officers retired on superannuation pension with effect from the date as noted against each:—

- (a) Sri S. K. Basu, B.S.F.S., D.C.F.—14th November 1946.  
(b) Sri S. C. Basu, B.F.S., E.A.C.F.—14th June 1946.  
(c) Sri R. L. Acharya, B.F.S., E.A.C.F.—26th November 1946.

(ii) *Subordinate Executive and Clerical Establishments.*—The following statement summarises the retirements and other casualties in the permanent establishment during the year under report:—

Particulars.	Forest Rangers.	Deputy Rangers.	Foresters.	Forest Guards, etc.	Head Clerks.	Clerk-Typists.	Peons and Dakwallas.	Mahouts and Grass-cutters.	Total.
(i) Died .. ..	1	..	..	8	..	2	..	..	11
(ii) Retired .. ..	2	..	..	8	..	1	..	..	11
(iii) Resigned .. ..	..	..	3	6	..	..	3	..	12
(iv) Dismissed .. ..	..	..	2	1	..	..	..	..	3
(v) Services dispensed with	1	..	11	29	..	..	8	1	50
Total .. ..	4	..	16	52	..	3	11	1	87
	(2)	(1)	(26)	(60)	..	(4)	(18)	(12)	113

62. The relation between Revenue and Forest officials was cordial.

## CHAPTER VIII—GENERAL.

63. **Forest villages.**—The following permanent and temporary forest villages were maintained during the year:—

Forest Division.	Village numbers.				House numbers.				Area in acres.			
	1946-47.		1945-46.		1946-47.		1945-46.		1946-47.		1945-46.	
	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.
Darjeeling ..	19	18	18	18	247	190	230	137	596	146	586	103
Kalimpong ..	8	13	7	14	143	260	125	200	173	270	143	200
Kurseong ..	10	6	19	5	368	74	408	70	433	187	*433	*145
Jalpaiguri ..	38	..	38	..	590	..	560	..	2,006	..	2,006	..
Buxa ..	30	..	36	..	764	..	736	..	4,861	..	4,946	..
Total ..	120	37	118	37	2,142	524	2,068	467	8,969	573	*9,014	*448

\*Corrected figures.

64. **Elephants.**—There were 11 (11) elephants in the Northern Circle at the close of the year, *vide* Annual Form No. 23. The condition of elephants was generally good. There were only 2 cases of sore-back.

65. **Wild Birds and Animals Protection Act.**—No case was reported during the year.

66. **Death and injury caused by wild animals.**—

Forest Divisions.	Number of persons killed by—		
	Tiger.	Bear.	Elephant.
Kurseong ..	5	1	..
Jalpaiguri ..	..	..	1
Buxa ..	..	..	1
Total ..	5	1	2

Three sambhars, 2 deer, 7 buffaloes, 6 bullocks, 16 cows, 16 goats, 11 ponies and 11 cattle were killed by wild animals in the Northern Circle.

67. **Death of cattle from natural causes.**—Forty-three cattle died of rinderpest in the Northern Circle.

68. **Hunting, shooting and fishing permits.**—Five hundred and forty-three (413) hunting, shooting and fishing permits were issued during the year and a sum of Rs. 13,436 (Rs. 7,845) was realised on this account.

69. **Wild animals killed.**—The following statement shows the number of wild animals shot and killed during the year:—

All-India serial No.	Species.	Number killed during 1946-47.	Average of last 5 years.
1a	Tiger .. .. .	12	9.2
1b	Tigress .. .. .	6	6.4
2	Leopard or panther .. .. .	35	17.6
3	Wild cats .. .. .	7	7.4
8	Wild dog .. .. .	1	3.2
9	Marten .. .. .	..	.8
12	Himalayan bear .. .. .	3	1.0
14	Sloth bear .. .. .	5	2.6
15	Wild elephant .. .. .	1	3.6
17	Gaur or bison .. .. .	..	.4
25	Thar .. .. .	..	.2
27	Serow or Himalayan goat-antelope .. .. .	8	2.2
28	Gural .. .. .	9	3.6
33	Barking deer or kakar .. .. .	183	119.8
37	Sambhar .. .. .	30	34.0
38	Chestal or spotted deer or axis deer .. .. .	4	1.2
39	Hog deer or para .. .. .	42	26.2
42	Pangolin .. .. .	..	..
43	Crocodile .. .. .	..	..
44	Gharial .. .. .	1	.2
45	Python .. .. .	2	3.0
46	Others species (named below) .. .. .	1,771	1,515.8
	Wild pig .. .. .	268	
	Hare .. .. .	37	
	Porcupine .. .. .	4	
	Jungle fowl .. .. .	810	
	Peafowl .. .. .	79	
	Imperial pigeon .. .. .	53	
	Green pigeon .. .. .	52	
	Pigeons .. .. .	38	
	Kalij pheasant .. .. .	86	
	Wood snipe .. .. .	170	
	Partridge .. .. .	7	
	Wild duck .. .. .	17	
	Wood cock .. .. .	9	
	Goonch .. .. .	1	
	Fish-cutley .. .. .	34	
	Mahseer .. .. .	75	
	Others .. .. .	31	
	Total .. .. .	1,771	

70. **Shooting and Fishing Associations and Game Federation, Bengal.**—The activities of the Shooting and Fishing Associations/Club continued to be satisfactory.

Co-operation with the Game Federation of Bengal was maintained for the preservation of fauna during the year.



71. **Capture of wild elephants.**—*Preventive measures against destruction of crops.*—One rouge elephant (tusker) was killed in the Buxa Division. *Khedda* operations were conducted in the Kalimpong and the Buxa Divisions and the sale price of the elephants caught was Rs. 30,026.

72. **General note.**—The demand for firewood by the tea gardens and that for charcoal by the inhabitants of the towns of Darjeeling and Kurseong were very heavy. Every possible step was taken to meet the heavy demands. The staff of the Darjeeling Division deserve credit for their keen efforts in maintaining the regularity in proper supply of these essential commodities in the wet, cold hills.

73. The writer of this report records here his appreciation of the services of officers and subordinates of both executive and clerical establishments for their ungrudging efforts needed by the time.

S. CHAUDHURI,

*Conservator-General of Forests, West Bengal.*

*The 7th October, 1950.*

**FORM No. 7.**  
(Paragraphs 1—5.)  
**Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1946-47.**

Division.	Range.	Civil district or territory.	Name of forests.	Area on 1st April 1946.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1947.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS											
(Under Forest Directorate.)											
Northern Circle.											
Darjeeling	..	Darjeeling ..	....	71,398	111	..	..	71,398	111	..	
Kalimpong	..	Ditto ..	....	1,34,722	210	..	..	1,34,722	210	..	
Kurseong	..	Ditto ..	....	71,662	112	..	..	71,662	112	..	
Jalpaiguri	..	Jalpaiguri	....	1,22,560	192	..	..	1,22,560	192	..	
Buxa	..	Ditto ..	....	2,39,434	374	..	..	2,39,434	374	..	
			Total Northern Circle.	6,39,776	999	..	..	6,39,776	999	..	
Southern Circle.											
24-Parganas	..	24-Parganas	....	10,42,815	1,630	..	..	10,42,815	1,630	..	
			Total Southern Circle	10,42,815	1,630	..	..	10,42,815	1,630	..	
			Total Reserved Forests under Forest Directorate, West Bengal.	16,82,591	2,629	..	..	16,82,591	2,629	..	

(Under other Directorates and Departments.)	Darjeeling	Northern Circle.	Darjeeling	Kurseong	Jalpaiguri	Buxa	Total Reserved Forests under other Directorates and Departments in the Northern Circle.	Total Reserved Forest in West Bengal.	In charge of Civil, Works and Buildings Directorates, State Mission and Municipal authorities.	In charge of Civil, Works and Buildings and Public Health Directorates.	In charge of Civil, Education, Works and Buildings, Industries, Agriculture, Kurseong, Municipalities and Darjeeling Himalayan Railway.	In charge of Bengal Assam Railway and Works and Buildings Directorates.	In charge of Bengal Assam Railway and District Board, Postal Department and Works and Buildings Directorate.
..	..	..	1,497	2	..	..	1,497	2	..	..	..	..	..
..	..	..	9,808	15	..	..	9,808	15	..	..	..	..	..
..	..	..	289	..	..	..	289	..	..	..	..	..	..
..	..	..	664	1	..	..	664	1	..	..	..	..	..
..	..	..	613	1	..	..	613	1	..	..	..	..	..
Total Reserved Forests under other Directorates and Departments in the Northern Circle.									12,371	19	12,371	19	..
Total Reserved Forest in West Bengal.									16,94,962	2,648	16,94,962	2,648	..

Division.	Range.	Civil district or territory.	Name of forests.	Area on 1st April 1940.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1947.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
<b>PROTECTED FORESTS.</b>											
(Under Forest Directorate.)											
Northern Circle.											
Kalimping	..	Darjeeling	Kalimping Development Area.	173	..	..	..	173	..	..	
			Total Protected Forests under the Forest Directorate in the Northern Circle.	173	..	..	..	173	..	..	
(Under other Directorates or Departments.)											
Northern Circle.											
Darjeeling	..	Darjeeling	Jalpaiguri Cantonment.	294	}	..	..	{ 294	}	1	In charge of the Military Department.
			Leibong Cantonment	76		..	..				
			Total Protected Forests in the Northern Circle under other Directorates or Departments.	370	1	..	..	370	1	..	
			Total Protected Forests in West Bengal.	543	1	..	..	543	1	..	
<b>LEASED LAND.</b>											
Southern Circle.											
24-Parganas	Basirhat and Namkhana.	24-Parganas	Total leased land in West Bengal.	7,72,069	1,207	..	..	7,72,069	1,207	..	
			Grand Total of Reserved Forests, Protected Forests, and Leased Land in West Bengal.	7,72,069	1,207	..	..	7,72,069	1,207	..	
				24,67,574	3,856	..	..	24,67,574	3,856	..	

TRACTS OVER WHICH THE FOREST, DIRECTORATE HAS THE RIGHT TO LEVEY EXPORT TAX ON THE EXPORT OF FOREST PRODUCE THEREFROM.

(Khas Forests.)  
Northern Circle.

Jalpaiguri .. ..

Buxa .....

TRAITS OVER WHICH THE FOREST, DIRECTOR-GENERAL, WAS THE MAIN, WAS
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Under Khas Mahal.  
(c) Corrected\* figure, made in accordance with the instructions issued by the Forest Department, No. 1414R, dated the 13th June 1947, from the Commissioner, Rajshahi Division, to the Conservator of Forests, Northern Circle, Bengal.

# **FORM No. 8.**

(Paragraph 6.)

## **Progress made in Forest Settlements during the year 1946-47.**

Forest division.	Civil district or territory.	Name of forest.	Area in square miles.			Cost during year.		Entire cost per square mile of area finally settled.	Government modification of settlement.	
			Finally settled during the year.	In hand at commencement of year.	Taken in hand during year.	In forest accounts.	In other accounts.		Number.	Date.
1	2	3	4	5	6	7	8	9	10	11
Kalonging	Darjeeling	Dolapchen Ridge	..	0.54	..	..	..	..	7510 For.	18th July 1947.
		Total	..	0.54	..	..	..	..		

FORM No. 9.

(Paragraph 7.)

Record of Demarcation and Maintenance of Boundaries, 1946-47.

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at close of the year.	Length of boundaries still to be demarcated at close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
<b>NORTHERN CIRCLE.</b>										
Reserved Forests.										
Darjeeling ..	..	117	41	158	..	74	232	..	882	
Kalimpong ..	..	131	31 (a)	212	..	73	285	..	1,306	
Kurseong ..	..	119	3	122	..	129	251	..	1,700	
Jalpaiguri ..	..	168	12	180	3	150	333	..	1,850	
Buxa ..	..	200	38	238	..	97	335	..	2,390	
Total Northern circle ..	..	785	125	910	3	523	1,436	..	8,123	
<b>SOUTHERN CIRCLE.</b>										
Reserved Forests.										
24-Parganas Division ..	..	6	..	6	..	293	304	..	304	
Grand Total, Bengal ..	..	791	125	916	3	821	1,740	..	8,433	

(a) Includes 7 miles maintained by the Civil Department and 19 miles by the Cinchona Department.

**FORM No. 10.**  
(Paragraph 8.)

**Statement showing forest areas surveyed and under survey by the Survey of India Department during the year 1946-47.**

Division.	Topographical surveys.											Ordinary surveys not paid for by Forest Department.				Boundary surveys.		Total area remaining to be surveyed.	Area remaining to be surveyed.	Total area as per Form No. 7.
	Special surveys paid for by Forest Department.																			
	Previous.		Of the year.			Cost.		Previous.			Of the year.		Previous	Of the year.						
	4" = 1 M.	2" = 1 M.	4" = 1 M.	2" = 1 M.	1" = 1 M.	Incur- red dur- ing the year.	Rs.	Rs.	8"	4"	2"	Smaller scales.			Smaller scales.					
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	L. m.	L. m.	Sq. m.	Sq. m.	Sq. m.			
1	2	3	4	5	6	7			8	9	10	11	12	13	14	15	16			
<b>NORTHERN CIRCLE.</b>																				
Reserved Forests.																				
Darjeeling	111	..	..	..	..	12,315	..	..	..	..	..	..	..	..	111	2	119			
Kalimpong	221	..	..	..	..	19,385	..	..	..	..	..	..	..	..	221	4	225			
Kurseong	112	..	..	..	..	7,702	..	..	..	..	..	..	..	..	112	..	112			
Jalpaiguri	179	..	..	..	..	20,319	..	..	..	..	..	..	..	..	179	14	193			
Buxa	311	..	..	..	..	36,844	..	..	..	42	..	..	..	..	353	22	375			
Total	934	..	..	..	..	97,065	..	..	..	42	..	..	..	..	976	42	1,018			
Protected Forests.																				
Darjeeling	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1			
Kalimpong	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Total Northern Circle	934	..	..	..	..	97,065	..	..	..	42	..	..	..	..	976	43	1,019			
<b>SOUTHERN CIRCLE.</b>																				
Reserved Forests.																				
24-Parganas	..	1,585	..	..	..	81,062	..	..	..	..	..	..	..	..	1,585	45	1,630			
Total Southern Circle	..	1,585	..	..	..	81,062	..	..	..	..	..	..	..	..	1,585	45	1,630			
Grand Total, Bengal	934	1,685	..	..	..	1,78,127	..	..	..	42	..	..	..	..	2,561	88	2,649			



## FORM No. 11.

(Paragraphs 9—11.)

## Progress made in Working Plans during the year 1946-47.

Division.	Area under sanctioned working plans.					Area not under working plans.			Total forest area in Form No. 7 (total of columns 5, 7, 8 and 9).	Revisions.			Expenditure on working plans during the year.
	At commencement of year.	Added during year.	Deducted during year.	At close of the year.		Plans not under pre-paration.		Due or required.		In progress at end of year.	Revised plans sanctioned during year.		
				Actual Area.	P. cent. of total forest area (as shown in column 10).	Plans under pre-paration.	Required at present.					Not required at present.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>NORTHERN CIRCLE.</b>													
<b>Reserved Forests.</b>													
Darjeeling ..	112	..	..	112	100	..	1	..	113	..	..	..	..
Kalimpong ..	..	..	..	..	..	225	..	..	225	..	..	..	100
Kurseong ..	112	..	..	112	100	..	..	..	112	..	..	..	290
Jalpaiguri ..	192	..	..	192	99	..	..	1	193	192	192	..	340
Buxa ..	367	..	..	367	97	5	..	3	375	374	374	..	573
Total ..	783	..	..	783	77	230	1	4	1,018	566	566	..	802
<b>Protected Forests.</b>													
Darjeeling ..	..	..	..	..	..	..	1	..	1	..	..	..	..
Total Northern Circle ..	783	..	..	783	77	230	2	4	1,019	566	566	..	802
<b>SOUTHERN CIRCLE.</b>													
<b>Reserved Forests.</b>													
24-Parganas ..	1,630	..	..	1,630	100	..	..	..	1,630	..	..	..	..
Grand Total, Bengal ..	2,413	..	..	2,413	177	230	2	4	2,649	566	566	..	802









# FORM No. 13.

(Paragraphs 16—21.)

## Statement showing register of breaches of Forest Rules during the year 1946-47.

Forest Division.	New cases of the year.									
	Cases pending from previous year.			Injury to forest by fire.			Unauthorised felling.			Total.
	A	B	All.	A	B	C	A	B	C	
1	2	3	4	5	6	7	8	9	10	11
<b>NORTHERN CIRCLE.</b>										
Darjeeling ..	13	8	21	..	1	..	29	244	1	..
Kalimpong ..	1	5	6	..	..	7	1	21	..	..
Kurseong ..	4	6	10	..	..	5	..	5	1	..
Jalpaiguri ..	1	28	29	..	..	6	..	37	2	..
Buxa ..	4	8	12	..	..	8	1	52	3	..
Total Northern Circle	23	55	78	..	1	26	31	359	7	..
<b>SOUTHERN CIRCLE.</b>										
24-Parganas ..	5	..	5	..	..	..	3	104	1	..
Grand Total	28	55	83	..	1	26	34	463	8	..

N.B.—A means taken into Court.  
B means cases disposed of under section 68 of the Indian Forest Act, 1927.  
C means undetected cases.

		Disposed of during the year.																				Cases pending at close of year.				
		Total cases.				Convictions.				Acquittals.				Total.												
Total cases.		Convictions.				Acquittals.				Total.								Cases pending at close of year.								
		Cases.		Persons.		Cases.		Persons.		Cases.				Persons.												
		A	B	C	All.	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	All.
1		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
NORTHERN CIRCLE.																										
	Darjeeling	54	664	3	721	3	636	6	801	2	..	6	..	5	636	641	12	801	813	49	28	77				
	Kalimpong	2	230	7	248	2	232	2	330	..	..	..	..	2	232	234	2	330	332	..	7	7				
	Kurseong	6	260	6	272	1	248	3	348	..	..	..	..	1	248	249	3	348	351	5	12	17				
	Jalpaiguri	2	595	10	607	1	573	4	1,093	..	9	..	18	1	582	583	4	1,111	1,115	1	13	14				
	Buxa	8	280	12	310	4	286	7	540	1	..	1	..	5	286	291	8	540	554	3	4	7				
	Total Northern Circle	72	2,048	38	2,158	11	1,975	22	3,118	3	9	7	18	14	1,984	1,998	20	3,136	3,165	53	64	122				
SOUTHERN CIRCLE.																										
	24-Parganas	20	315	4	339	9	315	17	1,078	2	..	..	7	10	315	325	17	1,083	1,100	10	..	10				
	Grand Total	92	2,363	42	2,497	19	2,290	39	4,194	5	9	7	25	24	2,299	2,323	46	4,219	4,265	68	64	132				

FORM No. 14.

(Paragraph 22.)

Area of Forest Tracts protected from fire during 1946-47.

1 Division.	2 Forest Range.	3 Year in which protection commenced.	4 Area attempted to be protected in 1945-46. Acres.	5 Area actually protected in 1945-46. Acres.	6 Area attempted to be protected in 1946-47. Acres.	7 Failure, 1946-47. Acres.	8 Area actually protected in 1946-47. Acres.	9 Cost. Rs.
Darjeeling	Tonglu	1891-92	14,766	14,766	14,766	..	14,766	..
	Singaila	1891-92	27,683	27,683	27,683	..	27,683	..
	Plantation Area.							
	Senchal	1879-80	..	..	..	..	..	..
	Ghum-Simana	1879-80	..	..	..	..	..	..
	Takdah	1885-86	..	..	..	..	..	..
	Tista Valley	1891-92	..	..	..	..	..	..
	Darjeeling	1918-19	..	..	..	..	..	..
	Total		54,576	54,549	54,549	34	54,515	2,549
	Kalimpong	1879-80	..	..	..	..	..	..
Kalimpong	..	1885-86	18,135	17,925	18,135	15	18,120	1,568
	..	1903-04	..	..	..	..	..	..
	..	1906-07	..	..	..	..	..	..
	Chel	1879-80	32,825	30,033	32,825	34	32,791	..
	Neora	1879-80	16,976	16,961	16,976	2	16,974	..
	Jaldhaka	1879-80	26,205	24,896	26,205	75	26,130	..
	Pankasari	1924-25	40,898	40,814	40,898	4	40,889	..
	Reclamation	1942-43	173	173	178	..	173	..
	..	1944-45	188	188	198	..	188	..
	Total		1,84,895	1,80,490	1,84,895	130	1,84,765	1,508



Kunseong	..	..	Sulna	..	..	1876-85	9,004	9,051	9,604	..	9,004	776
	..	..	Bagdogra	..	..	1876-85	7,388	7,388	7,388	81	7,307	76
	..	..	Pankhabari	..	..	1876-85	9,352	9,352	9,352	700	8,652	716
	..	..	Sevoke	..	..	1876-85	10,752	10,752	10,752	55	10,697	567
	..	..	Kurseong	..	..	1919-20	1,687	1,687	1,687	..	1,687	163
				..	Total	38,783	37,340	38,783	836	37,947	2,296	
Jalpaiguri	..	..	Apalchand	..	..	1878-79	15,124	9,903	15,124	..	15,124	1,685
	..	..		..	1931-32	..						
			Tondur-Dalna	..	..	1878-79	69,597	69,572	69,597	24	69,573	
				..	1908-09	..						
				..	..	1931-32	..					
			Moraghat	..	..	1872-73	17,719	17,618	17,719	..	17,719	
				..	1878-79	..						
				..	1881-82	..						
				..	1904-05	..						
				..	..	1907-08	..					
				..	..	1931-32	..					
			Madarihat	..	..	1904-05	17,267	17,267	17,267	..	17,267	
			..	1931-32	..							
		Total	..	..	1,19,707	1,14,420	1,19,707	24	1,19,683	1,685		

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1945-46.	Area actually protected in 1945-46.	Area attempted to be protected in 1946-47.	Failure. 1946-47.	Area actually protected in 1946-47.	Cost.
			3	4	5	6	7	8
1	2			Acres.	Acres.	Acres.	Acres.	Rs.
Buxa	Rajabhatkhawa	1876-77	..	2,045	2,020	2,045	7	2,038
		1905-06	..					
		1924-25	..					
	Damanpur	1924-25	..	3,435	3,435	3,435	..	100
		1876-77	..					
	Baksa—Duar..	1905-06	..	1,042	1,037	1,042	51	400
		1920-21	..					
		1922-23	..					
		1941-42	..					
	Chilapata	1879-80	..	6,689	6,686	6,680	..	250
		1883-84	..					
		1888-89	..					
		1890-91	..					
		1895-96	..					
	Nilpara	1922-23	..	11,903	11,788	11,903	75	250
		1940-41	..					
		1879-80	..					
		1883-84	..					
		1923-24	..					
		1936-37	..					
		1938-39	..					
		1939-40	..					

Rydak	..	1878-79	..	570	467	570	138	432	580
	..	1895-96	..						
	..	1922-23	..						
	..	1923-24	..						
Bholka	..	1878-79	..						
	..	1882-83	..	1,432	1,317	1,432	1	1,431	250
	..	1895-96	..						
	..	1899-1900	..						
	..	Total	..	27,107	28,729	27,107	272	26,835	2,010
	..	Grand Total	..	3,75,063	3,83,525	3,75,041	1,296	3,73,745	10,048

# FORM No. 15.

(Paragraph 22.)

## Causes of forest fires, 1946-47.

Division or Circle.	(A) Fires caused by accident or through carelessness in burning fire-lines.		(B) Fires entering the forests by crossing exterior fire traces.		(C) Fires beginning inside the reserve or fire-traced area.							
					Owing to carelessness or accident.				By railway engines.		By lightning or by fire balloons.	
	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	By workmen employed in the forests, by purchasers of forest-produce and by Y'a cutters.	By villagers, travelers, etc., passing through the forests.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.												
Darjeeling	1	..	..	..	..	..	3	34	..	..	..	..
Kalimpong	..	..	..	..	..	..	7	130	..	..	..	..
Kurseong	..	..	..	..	..	..	2	708	1	29	..	..
Jalpaiguri	..	..	..	..	..	..	3	10	2	10	..	..
Buxa	..	..	..	..	..	..	8	272	..	..	..	..
Total	1	..	..	..	..	..	23	1,154	3	39	..	..

(C) Fires beginning inside the reserve or fire-traced area.												
Division or Circle.	By intentional firing.						Total.		Causes unknown.		Total (A), (B) and (C).	
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.
	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.						
1	14	15	16	17	18	19	20	21	22	23	24	25
NORTHERN CIRCLE.												
Darjeeling	..	..	..	..	..	..	3	34	..	..	4	34
Kalimpong	..	..	..	..	..	..	7	130	..	..	7	130
Kurseong	..	..	..	..	..	..	3	737	2	99	5	836
Jalpaiguri	..	..	..	..	..	..	5	20	1	4	6	24
Buxa	..	..	..	..	..	..	8	272	..	..	8	272
Total	..	..	..	..	..	..	26	1,193	3	103	30	1,296

## FORM No. 16.

(Paragraphs 23—25.)

## Statement of areas closed and open to grazing during 1946-47.

Area in Square Miles.

Division.	Area closed to grazing of all animals throughout the year.	Area open to grazing throughout the year.		Balance, that is area open to grazing for a part of the year (and therefore closed for the remainder).		Total.
		Of all animals.	Of non-browsers only.	Of all animals.	Of non-browsers only.	
1	2	3	4	5	6	7
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
<b>NORTHERN CIRCLE.</b>						
<b>Reserved Forest.</b>						
Darjeeling ..	49	..	64	..	..	113
Kalimpong ..	162	..	63	..	..	225
Kurseong ..	82	..	30	..	..	112
Jalpaiguri ..	190	..	..	..	3	193
Buxa ..	368	..	7	..	..	375
<b>Total ..</b>	<b>851</b>	<b>..</b>	<b>164</b>	<b>..</b>	<b>3</b>	<b>1,018</b>
<b>Protected Forest.</b>						
Darjeeling ..	1	..	..	..	..	1
<b>Total Northern Circle</b>	<b>852</b>	<b>..</b>	<b>164</b>	<b>..</b>	<b>3</b>	<b>1,019</b>
<b>SOUTHERN CIRCLE.</b>						
<b>Reserved Forest.</b>						
24-Parganas ..	1,630	..	..	..	..	1,630
<b>Grand Total, Bengal ..</b>	<b>2,482</b>	<b>..</b>	<b>164</b>	<b>..</b>	<b>3</b>	<b>2,649</b>



Grazing free—Number of animals.														
Division.	By right under Settlement.						During pleasure of Government or otherwise than under Settlement.						Total of value of fees at full rates.	Grand total of value at full rates.
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.		
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.							Rs.	Rs.
NORTHERN CIRCLE.														
Darjeeling ..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,693
Kalimpong ..	..	..	..	..	..	..	..	84	..	..	..	126	126	10,463
Kurseong ..	..	..	..	..	..	..	..	..	..	..	..	..	..	55
Jalpaiguri ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,287
Buxa ..	..	..	..	..	..	..	..	8	..	..	1	46	46	647
Total ..	..	..	..	..	..	..	..	92	..	..	1	172	172	18,118



## FORM No. 19.

(Paragraphs 28—33.)

## Progress in concentrated regeneration and afforestation during 1946-47.

Division.	Area under concentrated natural regeneration during the year.	Area regenerated mainly by coppice during the year.	Area artificially regenerated during the year.		Total cost of regeneration operations during the year.
			In existing tree forest.	Afforestation	
1	2	3	4	5	6
	Acres.	Acres.	Acres.	Acres.	Rs.
<b>NORTHERN CIRCLE.</b>					
Darjeeling ..	..	..	604	..	18,886 including Rs. 5,002 spent under P. W. R. Scheme.
Kalimpong ..	..	133	333	..	14,921 including Rs. 1,187 spent under P. W. R. Scheme.
Kurseong ..	36	..	407	..	28,987 including Rs. 9,855 spent under P. W. R. Scheme.
Jalpaiguri ..	..	..	286	*	38,225 including Rs. 20,000 spent under P. W. R. Scheme.
Buxa ..	129	68	695	..	46,004 including Rs. 14,724 spent under P. W. R. Scheme.
<b>Total</b> ....	165	201	2,325	..	1,46,803

Column 2 includes all parts of Periodic Block I in process of natural regeneration.

Column 3 shows coppice coupes felled during the year.

Column 4 includes only those plantations first formed during the year.

Column 5 includes lands artificially converted to forest during the year.

Column 6 includes all cost of obtaining and of tending natural or artificial young crops, i.e., the total of budget sub-head AIVb.

## FORM No. 19.

(Paragraph 34.)

Outturn (in thousands of cubic feet solid) of timber and fuel during the year 1946-47 and agency of exploitation.

Division.	Timber in the rough, logs.					Timber in the rough, poles.				
	Govern- ment. 2	Pur- chasers. 3	Free grantees. 4	Right holders. 5	Total. 6	Govern- ment. 7	Pur- chasers. 8	Free grantees. 9	Right holders. 10	Total. 11
<b>NORTHERN CIRCLE.</b>										
<b>Reserved Forests.</b>										
..	..	241	..	..	241	3	2	..	..	5
..	15	307	..	..	322	2	3	9	..	14
..	178	47	..	..	225	10	3	..	..	13
..	21	729	..	..	750	13	34	..	..	47
..	170	593	1	..	764	25	16	3	..	44
<b>Total Northern Circle ..</b>										
..	384	1,917	1	..	2,302	53	58	12	..	123
<b>SOUTHERN CIRCLE.</b>										
<b>Reserved Forests.</b>										
..	..	..	..	..	..	..	1,191	..	..	1,191
<b>Leased lands.</b>										
..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	..	..	..	1,192	..	..	1,192
<b>Total Southern Circle ..</b>										
..	384	1,917	1	..	2,302	53	1,250	12	..	1,315

Division.	Sawn or square timber.						Miscellaneous.				
	Government. 12	Pur- chasers. 13	Free grantees. 14	Right holders. 15	Total. 16	Government. 17	Pur- chasers. 18	Free grantees. 19	Right holders. 20	Total. 21	
<b>NORTHERN CIRCLE.</b>											
Reserved forests.											
Darjeeling ..	2	..	..	..	2	..	..	..	..	..	
Kalimpong ..	3	..	..	..	3	..	..	..	..	..	
Kurseong ..	52	4	..	..	56	..	16	..	..	16	
Jalpaiguri ..	9	..	..	..	9	1	..	..	..	1	
Buxa ..	..	..	..	..	..	1	..	..	..	1	
Total Northern Circle ..	66	4	..	..	70	2	16	..	..	18	
<b>SOUTHERN CIRCLE.</b>											
Reserved forests.											
24-Parganas ..	..	..	..	..	..	..	..	..	..	..	
Leased lands.											
24-Parganas ..	..	..	..	..	..	..	..	..	..	..	
Total Southern Circle ..	..	..	..	..	..	..	..	..	..	..	
Grand Total ..	66	4	..	..	70	2	16	..	..	18	

Division.	Total timber.					Fuel.					Total outturn.
	Govern- ment.	Pur- chasers.	Free grantees	Right holders.	Total.	Govern- ment.	Pur- chasers.	Free grantees.	Right. holders.	Total.	
1	22	23	24	25	26	27	28	29	30	31	32
<b>NORTHERN CIRCLE.</b>											
<b>Reserved forests.</b>											
Darjeeling	5	243	..	..	248	53	2,183	44	..	2,280	2,528
Kalimpong	20	310	9	..	339	..	1,328	74	..	1,402	1,741
Kurseong	240	70	..	..	310	383	716	44	..	1,143	1,453
Jalpaiguri	44	763	..	..	807	28	4,046	57	..	4,131	4,938
Buxa	196	609	4	..	809	75	2,306	58	..	2,439	3,248
Total Northern Circle	505	1,995	13	..	2,513	539	10,579	277	..	11,395	13,908

**SOUTHERN CIRCLE.****Reserved forest.**

24-Parganas .. .. 1,191 .. .. 1,023 .. .. 2,214

**Leased lands.**

24-Parganas .. .. 1 .. .. 27 .. .. 28

Total Southern Circle .. ..

2,242

Grand Total .. ..

16,150

12,445

..

277

11,629

539

3,705

..

13

3,187

505

..

..

..

..

..

# FORM No. 20.

(Paragraph 34.)

## Outturn of minor forest produce during the year 1946-47.

Description of produce.	Produce removed or utilised.										Total.	
	By Government agency.		By purchasers.		By free grants.		By right-holders.					
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.		
	1	2	3	4	5	6	7	8	9	10	11	
		Rs.		Rs.		Rs.		Rs.		Rs.		
<b>RESERVED FORESTS.</b>												
<b>Northern Circle.</b>												
Bamboos ..	8,660	430	1,542,922	9,963	13,975	91	..	..	1,565,557	10,494		
Grazing ..	..	..	..	10,858	..	172	..	..	..	11,030		
Fodder ..	..	..	..	8,997	..	1,847	..	..	..	10,844		
Cane ..	..	358	..	15,145	..	23	..	..	..	15,526		
Stone ..	123,717	355	1,398,256	12,951	33,015	273	..	..	1,554,988	13,579		
Thatch grass ..	..	188	..	4,448	..	120	..	..	..	4,756		
Long pepper ..	..	..	..	937	..	..	..	..	..	937		
Royalty on Khaddah ..	..	..	..	14,400	..	..	..	..	..	14,400		
Honey combs ..	..	..	36	36	..	..	..	..	36	36		
Elephants ..	..	..	4	4,900	..	..	..	..	4	4,900		
Miscellaneous ..	..	5,630	..	9,709	..	1,408	..	..	..	16,647		
Total Northern Circle ..	..	6,861	..	92,344	..	3,934	..	..	..	1,03,139		

<b>Southern Circle.</b>												
Honey	..	..	Mds.	..	..	..	..	..	..	..	..	..
												2,955
Wax	..	..	Mds.	..	..	..	..	..	..	..	..	2,801
												2,801
Golpatta	..	..	Mds.	..	..	..	..	..	..	..	..	1,664
												1,664
Miscellaneous	..	..	Value	..	..	..	..	..	..	..	..	8,222
												8,222
Total Southern Circle	..	..		..	..	..	..	..	..	..	..	16,642
												16,642
Grand Total, Bengal	..	..		6,861	..	1,08,956	3,934	..	..	..	..	1,19,781
												1,19,781

## FORM No. 21.

(Paragraphs 35, 36, 37 and 46.)

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during the year 1946-47.

Name of Division.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forests and sale depots.
1	2	3	4	5	6
<b>NORTHERN CIRCLE.</b>	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
<b>Timber.</b>					
Darjeeling ..	704	5,121	5,825	5,163	662
Kalimpong ..	7,924	19,951	27,875	19,842	8,033
Kurseong ..	267,912	240,717	508,629	300,761	207,868
Jalpaiguri ..	73,804	43,826	117,630	83,465	34,165
Buxa ..	40,860	195,543	236,403	191,837	44,566
Total ..	391,204	505,158	896,362	601,068	295,294
<b>Fuel.</b>					
Darjeeling ..	6,659	53,210	59,869	51,072	8,797
Kalimpong ..	(a)4,040	..	4,040	2,320	1,720
Kurseong ..	123,517	382,682	506,199	390,103	116,096
Jalpaiguri ..	12,975	28,216	41,191	34,803	6,388
Buxa ..	14,560	75,320	89,880	79,198	10,682
Total ..	161,751	539,428	701,179	557,496	143,683
<b>Bamboos.</b>	Nos.	Nos.	Nos.	Nos.	Nos.
Darjeeling ..	..	300	300	300	..
Kalimpong ..	(b)75	..	75	75	..
Kurseong ..	(b)30	350	380	380	..
Jalpaiguri ..	5	3,250	3,255	3,255	..
Buxa ..	2	4,760	4,762	4,762	..
Total ..	112	8,660	8,772	8,772	..
<b>Minor produce.</b>	Rs.	Rs.	Rs.	Rs.	Rs.
Darjeeling ..	..	1,946	1,946	1,946	..
Kalimpong ..	..	535	535	29	506
Kurseong ..	130	546	679	546	130
Jalpaiguri ..	145	92	237	207	30
Buxa ..	1,150	3,312	4,462	2,564	1,898
Total ..	1,425	6,431	7,856	5,292	2,564

(a) Corrected figure.

(b) Not shown in column 6 of the Annual Form No. 21 for the year 1945-46 through oversight.



FORM No. 22.

(Paragraphs 35, 36, 37 and 46.)

Abstract showing the value of timber and other produce at sale depots for the year 1946-47.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	C.ft.	Value.	Number.	C. ft.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8	9	10
			Rs.			Rs.	Rs.	Rs.	
<b>NORTHERN CIRCLE.</b>									
<b>Timber.</b>									
Timber in round ..	31,937	291,632	3,13,793	30,813	206,321	2,30,908	..	82,885	
Sleepers ....	9,207	11,094	15,529	4,723	5,185	6,340	..	9,189	
Sawn timber other than sleepers	126,645	88,478	1,73,774	92,738	83,788	1,67,411	..	6,363	
Total ..	167,789	391,204	5,03,096	128,294	295,294	4,04,659	..	98,437	
<b>Fuel.—Firewood and charcoal</b>									
..	..	161,751	20,988	..	143,683	16,844	..	4,144	
Bamboos ..	112	..	369	..	..	..	..	369	
Minor produce ..	..	..	1,425	..	..	2,564	1,139	..	
Grand Total ..	..	..	5,25,878	..	..	4,24,067	..	1,01,811	

## FORM No. 23.

(Paragraph 47.)

## Abstract showing the value of live and dead stock for the year 1946-47.

Description of live and dead stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
		Ra.		Ra.	Ra.	Ra.	
<b>NORTHERN CIRCLE.</b>							
<b>Live Stock.</b>							
Elephants .. ..	11	(a) 71,000	11	71,000	..	..	
<b>Dead Stock.</b>							
Buildings .. ..	(a) 1,418	(a) 5,31,325	1,467	6,86,918	1,55,593	..	
Stores (Mathematical) ..	(a) 1,861	(a) 11,015	2,301	16,091	5,076	..	
Furniture .. ..	(a) 9,504	(a) 45,735	10,307	51,317	5,582	..	
Tents .. ..	(a) 12	(a) 1,310	15	2,572	1,262	..	
Miscellaneous .. ..	(a) 16,469	(a) 1,26,710	17,593	2,35,966	1,09,256	..	
<b>Total Dead Stock</b> ..	<b>29,964</b>	<b>7,16,095</b>	<b>31,383</b>	<b>9,92,864</b>	<b>2,76,769</b>	<b>..</b>	
<b>Total Northern Circle</b>	<b>..</b>	<b>7,87,095</b>	<b>..</b>	<b>10,63,864</b>	<b>2,76,769</b>	<b>..</b>	

**SOUTHERN CIRCLE.****Dead Stock.**

Buildings	65	16,180	65	16,410	..	770
Stores (Mathematical)	37	315	35	300	..	15
Stores (ordnance)	24	11,200	24	11,200	..	..
Furniture	188	2,810	199	3,155	345	..
Posts and angles	61	51,737	48	50,177	..	1,560
Motor latouches	1	25,000	1	25,000	..	..
Miscellaneous	467	4,957	465	4,949	..	8
Total Southern Circle	843	1,11,109	837	1,10,191	..	(b) 2,008

**DEVELOPMENT CIRCLE.****Live Stock.**

Bullocks	..	..	2	264	264	..
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**Dead Stock.**

Buildings	..	..	16	1,14,309	1,14,309	..
Stores (Mathematical)	355	4,498	486	5,665	1,167	..
Furniture	(a) 593	(a) 10,144	771	20,781	10,637	..
Tent with accessories	22	1,716	51	6,860	5,144	..
Motor truck	..	..	2	14,000	14,000	..
Miscellaneous	(a) 621	(a) 4,058	1,015	6,401	2,343	..
Total Dead Stock	(a) 1,591	(a) 20,416	2,341	1,68,016	1,47,600	..
Total Development Circle	..	(a) 20,416	..	1,68,280	1,47,864	..
Grand Total, Bengal	..	(a) 9,19,710	..	13,42,335	(c) 4,22,625	..

(a) Corrected figure.

(b) Net difference against the year in the Southern Circle.

(c) Net difference in favour of the year in Bengal.

**FORM No. 24.**

(Paragraph 43.)

**Annual Statement of Revenue of the Forest Department, Bengal, for the year 1946-47.**

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circ.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymensingh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>X—FOREST.</b>												
<b>Revenue.</b>												
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber ..	1,952	8,577	7,49,950	..	1,08,554	96,941	..	9,65,974	..	1,06,134	2,161	343
(b) Firewood and charcoal	8,477	105	1,03,358	..	4,669	3,884	..	1,20,493	..	2,384	..	169
(c) Bamboos ..	825	..	119	..	82	..	..	1,029	..	17,071	..	..
(d) Grass and other minor produce.	1,123	25	469	..	104	..	..	1,721	..	89	..	..
(e) Sandal wood	..	..	..	..	..	..	..	..	..	91	..	..
<b>Total I</b>	12,377	8,707	8,53,896	..	1,13,409	1,00,825	..	10,89,214	..	1,25,769	2,161	512
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber ..	88,773	1,23,635	79,639	..	5,62,307	8,69,264	..	17,23,618	..	1,67,282	2,80,233	8,05,341
(b) Firewood and charcoal	58,673	32,844	23,065	..	59,208	1,26,137	..	3,02,927	..	2,748	40,660	78,027
(c) Bamboos ..	2,395	2,703	2,353	..	2,051	541	..	10,043	..	91,908	1,17,045	2
(d) Grass and fodder grass	9,658	6,119	1,814	..	621	1,647	..	13,859	..	..	8,040	..
(e) Other minor produce	8,414	12,185	6,827	..	21,391	11,271	..	60,088	..	27,456	21,895	6,389
(f) Commutation fees	..	..	..	..	..	..	..	..	..	..	40,382	..
(g) Other items	..	..	..	..	..	..	..	..	..	4	..	..
<b>Total II</b>	1,67,913	1,77,486	1,13,698	..	6,45,578	10,11,860	..	21,16,555	..	2,89,368	4,48,205	9,79,759

III.—Drift and walf wood and confiscated forest produce.	725	228	..	2,328	2,270	..	5,548	..	822	3,378	106
IV.—Revenue from forests not managed by Government—											
(a) Duty on foreign timber and other forest produce.	..	..	..	..	..	..	..	..	..	..	..
(b) Revenue from shared and private forests.	..	..	..	..	..	..	..	..	..	..	..
Total IV	..	..	..	..	..	..	..	..	..	..	..
V.—Miscellaneous—											
(a) Fines and forfeitures	330	..	..	1,694	761	..	2,785	..	119	..	547
(b) Other sources	24,107	10,457	162	15,217	28,809	1,792	84,561	1,218	10,580	34,323	11,862
(c) Receipts (including rent) realised from works.	851	1,074	..	910	1,405	170	5,188	..	1,142	1,909	..
(d) Sale of forest produce purchased from trade.	20,722	..	..	2,399	11,613	..	34,734	6	181	1,47,060	..
Total V	46,010	11,531	162	20,220	42,588	1,962	1,27,268	1,224	12,022	1,84,392	12,209
VI.—Receipts in England—											
High Commissioner	..	..	..	..	..	..	..	..	..	..	..
VII.—Loss or gain by exchange	..	..	..	..	..	..	..	..	..	..	..
VIII.—Deduct—	..	..	..	..	..	..	..	..	..	..	..
—Defund	-18,042	-529	..	-972	-1,544	..	-22,535	-50	-52,076	-1,448	-4,00,522
Total X—Forest	2,08,983	1,97,420	162	7,40,563	11,55,999	1,962	33,10,030	1,174	3,75,905	6,36,688	5,92,003
Total Expenditure	2,61,115	2,91,263	1,51,494	6,48,874	3,93,056	1,21,470	25,39,519	3,25,812	3,18,644	4,79,181	2,45,751
Surplus	..	..	..	..	..	..	7,70,511	..	57,261	1,57,527	3,46,312
Deficit	52,132	93,803	1,51,332	1,31,689	7,62,913	..	..	..	..	..	..





Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymen-Singh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10.—FOREST—contd.</b>												
<b>Expenditure.</b>												
<b>A.—Conservancy and Works.</b>												
<b>I.—Timber and other produce removed from the forest by Government Agency—</b>												
(a) Timber { C { V {	213	13,034	3,05,372	..	76,957	13,076	..	4,14,152	..	61,312	112	21
(b) Firewood and charcoal. { C { V {	9,926	10	85,290	..	5,038	..	..	1,00,264	..	2,311	..	127
(c) Bamboos { C { V {	..	..	..	..	..	..	..	..	..	15,293	..	..
(d) Grass and other minor produce. { C { V {	449	20	634	..	37	..	..	1,140	..	216	1,667	..
(e) Sandalwood { C { V {	..	..	..	..	..	..	..	..	..	..	..	..
(f) Customs duty on imported stores. { C { V {	..	..	..	..	..	2	..	..	..	..	..	..
Total I { C { V {	10,588	13,064	3,91,796	..	82,034	13,076	..	5,15,558	..	79,132	1,779	148
<b>II.—Timber and other produce removed from the forests by consumers or purchasers.</b>												
(a) Customs duty on imported stores. { C { V {	2,485	7,076	850	..	11,000	15,000	..	36,411	..	..	10,994	7,351
Total II { C { V {	2,485	7,076	850	..	11,000	15,000	..	36,411	..	13,863	1,225	7,351





Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpauri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong	Dacca- Mynen- singh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10.—FOREST—contd.</b>												
<b>A.—Conservancy and Works— contd.</b>												
III.—Constructions, purchase, Maintenance, Repairs, etc.— <i>contd.</i>												
(a) Cattle {C .. } V	..	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of cattle. {C .. } V	..	250	660	..	1,600	2,000	..	4,510	..	1,790	..	..
(c) Stores, tools and plant. {C .. } V	13,022	2,125	2,799	227	4,372	2,650	-531	24,864	..	7,914	20	..
										10,271	1,356	..
(d) Roads and bridges {C .. } V	29,286	5,819	23,999	..	40,250	9,708	..	1,09,062	..	12,800	..	..
(e) Buildings {C .. } V	14,905	17,706	28,208	..	46,210	17,618	-6,578	1,18,063	..	13,169	70	..
(f) Other works {C .. } V	3,179	1,900	3,193	..	11,596	2,909	-1,564	20,518	..	1,650	35	3,279
(g) Customs duty on imported stores. {C .. } V	..	..	..	..	..	..	..	..	..	..	..	..
(A) Compensation for land and rights. {C .. } V	..	..	..	..	..	..	..	..	..	..	..	..
Total III {C .. } V	60,392	27,194	58,864	227	1,04,028	34,785	-8,073	2,76,817	..	37,923	125	6,736

Budget Heads.	Sundar- bans.	Direction (S).	Total Southern Circle.	Silvicultural.	Working plans.	Utilisation.	Nadia.	West Bengal.	Direction (Develop- ment).	Total Development Circle.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>											
Expenditure—contd.											
<b>A.—Gencervency and Works.—</b>											
contd.											
<b>III.—Constructions, Purchase, Maintenance, Repairs, etc.—</b>											
(a) Cattle $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of $\begin{Bmatrix} C \\ V \end{Bmatrix}$ cattle.	..	..	1,073	..	..	..	..	..	..	..	1,073
	..	..	1,790	..	..	..	..	..	..	..	1,790
	..	..	1,977	..	..	..	97	..	..	97	6,584
(c) Stores, tools and $\begin{Bmatrix} C \\ V \end{Bmatrix}$ plant.	..	..	7,934	..	..	..	..	..	..	..	7,934
	16,555	3,603	31,765	104	3,492	600	9	12,413	..	16,618	73,747
(d) Roads and bridges $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	12,800	..	..	..	..	..	..	..	12,800
	..	..	4,326	..	..	..	..	..	..	..	1,13,383
(e) Buildings $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	13,239	..	..	..	..	..	..	..	13,239
	28,726	..	76,983	..	..	..	..	9,806	..	9,806	2,04,852
(f) Other works $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	1,685	..	..	..	..	..	..	..	1,685
	2,282	..	10,593	..	..	..	..	1,345	..	1,345	32,456
(g) Customs duty on $\begin{Bmatrix} C \\ V \end{Bmatrix}$ Imported stores.	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..
(h) Compensation for $\begin{Bmatrix} C \\ V \end{Bmatrix}$ land and rights.	..	..	..	..	..	..	..	..	..	..	..
	220	..	220	..	..	..	..	..	..	..	220
Total III $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	37,443	..	..	..	..	..	..	..	37,443
	47,783	3,603	1,26,937	104	3,492	600	106	23,564	..	27,806	4,31,620

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Dir. tion (N.).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca- Mynen- singh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>												
<b>Expenditure—contd.</b>												
<b>A.—Conservancy and Works.— contd.</b>												
<b>IV.—Conservancy and Regene- ration—</b>												
(a) Maintenance of { C boundaries. { V	.. 882	.. 1,306	.. 1,700	.. ..	.. 2,390	.. 1,850	.. ..	.. 8,128	.. ..	.. 1,850	.. 80	.. ..
(b) Regeneration .. { C { V	.. 13,685	.. 13,734	.. 19,110	.. ..	.. 31,250	.. 20,401	.. ..	.. 98,210	.. ..	.. 19,783	.. 7,265	.. ..
(c) Fire protection .. { C { V	.. 2,549	.. 1,503	.. 2,297	.. ..	.. 2,610	.. 1,655	.. ..	.. 10,049	.. ..	.. 912	.. ..	.. 2,431
(d) Other works .. { C { V	.. 633	.. 11,900	.. 4,124	.. ..	.. 20,800	.. 3,903	.. ..	.. 41,365	.. ..	.. 1,400	.. -48	.. 400
(e) Survey .. { C { V	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(f) Customs duty on { C imported stores. { V	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(g) Compensation for { C land and rights. { V	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
<b>Total IV .. { C { V</b>	.. 17,749	.. 28,443	.. 27,231	.. ..	.. 56,430	.. 27,844	.. ..	.. 1,57,752	.. ..	.. 23,945	.. 80	.. 26,279

Budget Heads.	Sundar- bans.	Direction (S).	Total Southern Circle.	Slivicultural.	Working Plans.	Utilisation.	Nadia.	West Bengal.	Direction (Develop- ment).	Total Development Circle.	Grand Total.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>											
<b>Expenditure—contd.</b>											
<b>A.—Conservancy and Works.—</b>											
<b>contd.</b>											
<b>IV.—Conservancy and Regene- ration—</b>											
(a) Maintenance of boundaries.	65	..	1,930 3,634	.. ..	.. ..	.. ..	.. ..	.. 1,080	.. ..	.. 1,080	1,930 12,842
(b) Regeneration	..	..	19,783	..	..	..	..	..	..	..	19,783
	..	..	28,003	2,965	..	..	460	1,696	..	5,121	1,31,334
(c) Fire protection	..	..	912	..	..	..	..	..	..	..	912
	..	..	2,481	..	..	..	..	..	..	..	12,590
(d) Other works	..	..	1,400	..	..	..	..	..	..	..	1,400
	..	..	352	..	..	..	..	10	..	10	41,727
(e) Survey	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..
(f) Customs duty on imported stores.	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..
(g) Compensation for land and rights.	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..
<b>Total IV</b>	65	..	24,025 34,470	.. 2,965	.. ..	.. ..	.. 460	.. 2,786	.. ..	.. 6,211	24,025 1,98,433

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymensingh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>												
<b>Expenditure—contd.</b>												
<b>A.—Conservancy and Works—contd.</b>												
<b>V.—Miscellaneous—</b>												
(a) Drift and walf wood and confiscated forest produce	..	..	..	..	..	..	..	..	..	564	..	..
(b) Revenue from forest not managed by Government leased.	..	..	..	..	..	..	..	..	..	..	..	..
(c) Rent of forests and payments to shareholders in forests managed by Government.	..	..	..	..	..	..	..	..	..	..	..	..
(d) Law charges	243	..	..	..	..	2	..	245	..	..	980	70,510
(e) Dearness allowance	..	..	..	..	..	..	..	..	..	..	50	40
(f) Clothing	553	1,362	2,404	..	3,070	2,028	244	9,691	..	1,266	5,708	1,983
(g) Other charges	430	340	410	..	1,940	674	194	3,938	..	562	338	104
(A) Working plans	..	..	..	..	..	..	..	..	..	..	..	..
(i) Customs duty on imported stores.	113	100	290	..	200	340	..	1,043	..	..	85	80
(j) Purchase of forest produce from Trade or from purchasers of standing trees.	..	..	..	..	..	..	..	..	..	9	..	..
Total V	27,860	1,259	136	..	2,18,628	2,13,647	..	4,61,520	..	2,391	1,202	..
	29,219	3,061	3,240	..	2,23,838	2,16,691	438	4,76,457	..	..	8,351	72,759

Budget Heads.	Sundar- baas.	Direction (S).	Total Southern Circle.	Silvicultural.	Working Plans.	Utilisation.	Kadla.	West Bengal.	Direction (Develop- ment).	Total Development Circle.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>											
<b>Expenditure—contd.</b>											
<b>A.—Conservancy and Works— contd.</b>											
<b>V.—Miscellaneous—</b>											
(a) Drift and walf wood and confiscated { forest produce. { V	..	..	504	..	..	..	..	..	..	..	504
(b) Revenue from for- est not managed by { Government, leased. { V	15	..	18	..	..	..	..	..	..	..	18
(c) Rent of forests and payments to share- holders in forests managed by Govern- ment. { V	..	..	..	..	..	..	..	..	..	..	..
(d) Law charges .. { V	..	..	70,510	..	..	..	..	..	..	..	70,510
	49	..	1,069	..	..	..	..	..	..	..	1,514
(e) Dearness allow- ances. { V	..	..	..	..	..	..	..	..	..	..	..
(f) Clothing .. { V	20,998	..	20,948	..	..	..	..	..	..	..	20,948
	..	..	1,266	..	..	..	..	..	..	..	1,266
(g) Other charges { V	2,485	..	10,121	263	79	1	..	273	..	610	20,428
	1,984	..	2,518	2,207	30	33	..	1,069	..	3,339	552
(h) Working plans { V	..	..	..	..	..	..	..	..	..	..	9,845
(i) Customs duty on imported stores. { V	..	..	165	1,646	4,809	..	..	..	..	6,455	7,663
(j) Purchase of forest produce from trade or from purchasers of standing trees. { V	..	..	9	..	..	..	..	..	..	..	9
	1,27,408	..	1,28,700	..	..	1,63,421	..	..	..	1,63,421	7,53,641
<b>Total V .. { V</b>	..	..	2,391	..	..	..	..	..	..	..	2,391
	1,52,930	..	2,34,049	4,116	4,918	1,63,455	..	1,342	..	1,73,331	8,84,367

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymensingh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>												
<b>Expenditure—contd.</b>												
<b>A.—Conservancy and Works.— contd.</b>												
<b>VI.—Suspense—</b>												
Work advance { C	..	..	..	..	..	..	..	..	..	384	..	..
.. { V	..	..	..	..	327	..	..	327	..	..	—100	..
.. { C	..	..	..	..	..	..	..	..	..	..	..	..
<b>VII.—Charges on account { C</b>	..	..	..	..	..	..	..	..	..	..	..	..
of Bengal Forest School { V	..	..	..	..	..	..	..	..	..	..	..	..
<b>VIII.—Debet—Amount { C</b>	..	..	..	..	..	..	..	..	..	..	..	..
recoverable from other { V	..	..	..	..	..	..	..	..	..	..	..	..
Governments, Depart- { C	..	..	..	..	..	..	..	..	..	..	..	..
ments, etc. { V	..	..	..	..	..	..	..	..	..	..	..	..
<b>Total A.—Conservancy and { C</b>	—82,914	—1,259	—186	..	—1,25,697	—2,09,311	..	—3,69,317	..	..	—1,292	..
Works. { V	..	77,584	4,81,845	227	3,52,010	1,03,065	—8,335	10,04,035	..	1,56,983	1,480	1,13,323
<b>B.—Establishment.</b>												
<b>I.—Pay of Officers—</b>												
(a) Conservators { C	..	..	..	57,521	..	..	..	57,521	77,438	..	..	..
.. { V	12,465	..	11,168	..	2,733	..	..	26,416	1,338	7,333	13,434	18,468
(b) Superior Officers { C	2,479	14,434	979	6,271	8,174	16,147	8,474	56,958	10,977	..	27,923	3,037
.. { V	..	..	..	..	..	..	..	..	..	..	..	..
(c) Pay of recruits of { C	..	..	..	..	..	..	..	..	..	..	..	..
the Imperial Forest { V	..	..	..	..	..	..	..	..	..	..	..	..
Service. { C	..	..	..	..	..	..	..	..	..	..	..	..
(d) Provision for tem- { C	..	..	..	..	..	..	..	..	..	..	..	..
porary Forest { V	..	..	..	..	..	..	..	..	..	..	..	..
Officers. { C	..	..	..	..	..	..	..	..	..	..	..	..
<b>Debet—Recoveries on { C</b>	..	..	..	..	..	..	..	..	..	..	..	..
account of allotment { V	..	..	..	..	..	..	..	..	..	..	..	..
of pay of officers.	..	..	..	..	..	..	..	..	..	..	..	..
<b>Total 1</b>	12,465	14,434	11,168	57,521	2,733	..	..	83,037	78,326	7,338	13,434	18,468
	2,479	..	979	6,271	8,174	16,147	8,474	56,958	10,977	..	27,923	3,037



Budget Heads.	Sundar- bans.	Direction (S).	Total Southern Circle.	Silvicultural.	Working Plans.	Utilisation.	Naida.	West Bengal.	Direction (Develop- ment).	Total Development Circle.	Grand Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>											
<b>Expenditure—contd.</b>											
<b>A.—Conservancy and Works.— contd.</b>											
<b>VI.—Suspense—</b>											
Work advance .. { C			384	..	..	..	..	..	..	..	384
VII.—Charges on account { C			-100	..	..	..	..	..	..	..	227
of Bengal Forest { V			..	..	..	..	..	..	..	..	..
School { V			..	..	..	..	..	..	..	..	..
VIII.—Deduct—Amount { C			..	..	..	..	..	..	..	..	..
recoverable from { C			..	..	..	..	..	..	..	..	..
other Governments { V			-1,28,639	..	..	-1,40,369	..	..	..	-1,40,369	-6,44,825
Departments, etc. { V											
<b>Total A.—Conservancy and { C</b>			1,58,418	..	..	..	..	..	..	..	1,58,418
<b>Works. { V</b>			6,89,357	7,185	8,410	17,650	566	27,692	..	61,539	18,44,961
<b>B.—Establishment.</b>											
<b>1.—Pay of Officers—</b>											
(a) Conservators { C			3,777	..	..	..	..	..	..	..	1,38,736
{ V			40,490	..	16,200	19,777	..	11,082	..	51,877	1,25,871
(b) Superior Officers { C	4,150	3,100	..	4,318	..	..	..	..	..	..	..
{ V	26,655	..	57,615	1,634	1,547	9,018	450	906	..	13,555	1,39,105
(c) Pay of recruits of { C			..	..	..	..	..	..	..	..	..
the Imperial Forest { V			..	..	..	..	..	..	..	..	..
Service { V			..	..	..	..	..	..	..	..	..
(d) Provision for tem- { C			..	..	..	..	..	..	..	..	..
porary Forest { V			..	..	..	..	..	..	..	..	..
Officers { V			..	..	..	..	..	..	..	..	..
<b>Deduct—Recoveries on { C</b>			..	..	..	..	..	..	..	..	..
account of allotment { V			..	..	..	..	..	..	..	..	..
of pay of officers. { V			..	..	..	..	..	..	..	..	..
<b>Total 1 .. { C</b>	4,150	6,877	50,287	4,318	16,200	19,777	..	11,082	..	51,877	2,64,407
<b>{ V</b>	26,655	..	57,615	1,634	1,547	9,018	450	906	..	13,555	1,39,105





Budget Heads.	Sundar- bans.	Direction (S).	Total Southern Circle.	Silvicultural.	Working Plans.	Utilisation.	Nadia.	West Bengal.	Direction (Develop- ment.)	Total Development Circle.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10.—FOREST—contd.</b>											
<b>Expenditure—contd.</b>											
<b>B—Establishment—contd.</b>											
<b>2.—Pay of establishment—</b>											
(a) Subordinate Forest and Depot establish- ment. { C V	.. 62,711	.. ..	28,325 1,54,391	.. 6,070	.. 3,613	.. 2,175	.. 191	.. 3,722	.. ..	.. 15,776	28,325 3,69,814
(b) Office Establish- ment. { C V	.. 13,410	.. 2,514	6,816 34,189	.. 2,652	.. 2,997	.. 3,563	.. 47	.. 1,503	.. ..	.. 10,762	6,816 1,08,778
(c) Temporary estab- lishment. { C V	.. 6,964	.. 5,081	9,266 54,517	.. 51	.. 256	.. 7,176	.. 82	.. 1,836	.. ..	.. 9,401	9,266 1,47,594
(d) Leave allowance { C V	.. 6,389	.. 157	3,266 15,281	.. 1,524	.. 1,108	.. 524	.. ..	.. 243	.. ..	.. 3,489	3,266 35,513
(e) Sub-Assistant Sur- geon. { C V	.. ..	.. ..	120 ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	120 1,570
(f) Extra cost in leave vacancies. { C V	.. 48	.. ..	1,186 627	.. 23	.. ..	.. ..	.. ..	.. ..	.. ..	.. 23	1,186 849
(g) Temporary estab- lishment for Central Government Timber Depots. { C V	.. 287	.. ..	12 713	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	12 11,927
<b>Total 2</b> { C V	.. 96,819	.. 7,762	48,991 2,59,718	.. 10,820	.. 8,069	.. 13,438	.. 320	.. 7,304	.. ..	.. 39,451	48,991 6,76,045

3.—Allowances and hono-  
ris—

(a) Travelling allow- ance. { C V	663	1,825	17,655	404	1,842	2,040	..	2,752	..	7,038	40,550
	11,154	2,291	59,677	4,713	4,151	2,500	547	3,146	..	15,087	1,92,825
(b) Other allowances { C V	34	..	3,882	..	730	2,260	..	..	..	2,990	7,358
	7,324	759	8,215	1,222	924	2,070	5	112	..	4,333	58,424
(c) Cost of passage, etc. { C V	..	..	..	..	..	..	..	..	..	..	..
	..	..	-131	..	..	..	..	..	..	..	-131
(d) Dearness allowance { C V	727	722	46,922	2,039	4,216	4,750	..	1,888	..	12,893	74,373
	56,801	2,293	1,87,886	4,277	3,480	8,455	242	4,189	..	20,643	4,43,689
(e) Allowances to tem- porary staff for Cen- tral Government Timber Depots. { C V	..	..	..	..	..	..	..	..	..	..	..
	437	..	800	..	..	..	..	..	..	..	10,720
(f) Cost of passage { C granted under the Superior Civil Service Rules, 1924. { V	..	2,733	2,733	..	..	..	..	..	..	..	20,392
	..	..	..	..	..	..	..	..	..	..	..
Total 3 { C V	1,424	4,786	70,592	2,443	6,788	9,050	..	4,640	..	22,921	1,42,673
	75,806	5,973	2,56,447	10,212	8,585	13,025	794	7,447	..	40,063	7,00,527

Budget Heads.	Darjeeling	Kalimpong.	Kurseong.	Dirchion (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymen-Singh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10—FOREST—contd.												
Expenditure—contd.												
B—Establishment—contd.												
4.—Conting. notes—												
(a) Stationery .. { C V	13	14	633	137	69	150	21	1,037	1,148	23	38	75
(b) Carriage of tents { C and records. V	32	25	5	1,845	142	55	..	2,104	389	14	11	145
(c) Rents, rates and { C Taxes. V	572	437	1,811	5,100	50	1,604	..	9,558	..	2,006	3,644	1,691
(d) Official postage { C V	692	1,000	2,109	1,771	2,510	1,690	240	10,003	2,065	1,500	2,489	800
(e) Sundries .. { C V	2,259	1,700	4,385	4,940	4,552	3,992	1,201	23,029	17,904	2,875	202	2,697
(f) Purchase of books { C V	63	128	81	116	221	97	17	723	156	78	30	60
(g) Contingencies for { C temporary staff for C. G. I. Depots. V	..	..	..	..	..	..	..	..	..	..	..	..
Total 4 .. { C V	3,631	3,304	9,294	13,909	7,874	8,357	1,479	47,846	21,692	6,496	202	5,468



Budget Heads.	Sundar- bans.	Direction (S).	Total Southern Circle.	Silvicultural.	Working Plans.	Utilisation.	Nadia.	West Bengal.	Direction (Develop- ment.)	Total Development Circle.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST—contd.</b>											
<b>Expenditure—contd.</b>											
<b>B—Establishment—contd.</b>											
<b>4.—Contingencies—</b>											
(a) Stationery .. { C V	.. 1,200	.. 51	23 1,364	..	.. 66	.. 18	.. 59	.. 117	.. ..	.. 260	23 3,809
(b) Carriage of tents { C and records. V	.. 16	.. 75	14 247	.. 186	.. 92	.. 142	.. 10	.. 7	.. ..	.. 436	14 3,176
(c) Rents, rates and { C taxes. V	.. 3,447	.. ..	2,006 8,782	.. 230	.. 156	.. 226	.. ..	.. 1,677	.. ..	.. 2,289	2,056 20,629
(d) Official postage .. { C V	.. 1,101	.. 450	1,500 4,850	.. 400	.. 180	.. 2,244	.. 29	.. 200	.. ..	.. 3,053	1,500 19,971
(e) Sundries .. { C V	.. 1,360	.. 1,142	3,077 9,051	.. 361	.. 631	.. 874	.. ..	.. 509	.. ..	.. 2,375	3,077 52,359
(f) Purchase of books { C V	.. 126	.. 89	78 305	.. 84	.. 32	289 —236	.. 24	.. 80	.. ..	289 —15	367 1,199
(g) Contingencies for { C temporary staff for G. C. T. Depots V	.. 1,193	.. ..	.. 1,538	.. ..	.. ..	.. 1,910	.. ..	.. ..	.. ..	.. 1,910	.. 4,842
<b>Total 4 .. { C V</b>	.. 8,443	.. 1,807	6,698 26,137	.. 1,260	.. 1,157	239 5,179	.. 122	.. 2,590	.. ..	289 10,308	7,037 1,05,985





Budget Heads.	Darjeeling.	Kalimpong.	Kur-cong.	Disetion (N).	Buxa.	Jalpaiguri.	Bengal Forest School.	Total Northern Circul.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca- Mymen- singh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—FOREST.—contd.</b>												
Expenditure—contd.												
D.—Interest on Capital .. { C V	..	..	..	..	..	..	..	..	..	..	..	..
D.—Charges in England—												
(a) Leave and deputa- { C tion, salaries, &c. V	..	..	..	..	..	..	..	..	37,690	..	..	..
	..	..	..	..	..	..	..	..	21,920	..	..	..
(b) Sterling Overseas { C Pay. V	..	..	..	..	..	..	..	..	20,835	..	..	..
	..	..	..	..	..	..	..	..	362	..	..	..
(c) Allotment of pay of { C officers. V	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	9,270	..	..	..
(d) Other charges .. { C V	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	53	..	..	..
Total D .. { C V	..	..	..	..	..	..	..	..	58,525	..	..	..
	..	..	..	..	..	..	..	..	391,005	..	..	..

[illegible]

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Luxa.	Jalpai-guri.	Bengal Forest School.	Total Northern Circle.	General Direction.	Chittagong Hill Tracts.	Chittagong.	Dacca-Mymensingh.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—Forest— <i>concid.</i>												
Expenditure— <i>concid.</i>												
F.—Special Development Programme—												
(1) Afforestation in the District of Nadia. { C {			366		292			658	20			
(2) Rehabilitation of existing Government Forests. { C {												
(3) Provision for training of technical and other personnel. { C {			18,568		47,437	77,408		2,28,423		59,071	42,512	156
(4) Conservation of private forests and afforestation of private waste lands. { C {									1,077		305	
(5) Creation of a Soil Conservation Circle. { C {												
(6) Improvement of communication, buildings and water-supply in Government Forests. { C {			25,954	8,999	45,232	67,480		2,28,808		—11,804	4,042	2,132
(7) Deduct—Amount transferred to circle { C {							88,450	88,450	34,186			
(8) Add—Amount transferred from Circle. { C {												
Total F. { C {	55,270	1,11,183	44,838	8,999	92,961	1,44,888	88,450	5,46,389	35,263	47,267	84,359	6,806



Budget Heads.	Sundar- bans.	Direction (%).	Total Southern Circle.	Silvicultural.	Working Plans.	Utilisation.	Nadia.	West Bengal.	Direction (Develop- ment).	Total Develop- ment Circle.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<b>10—Forest—<i>concid.</i></b>											
<b>Expenditure—<i>concid.</i></b>											
<b>F.—Special Development Programme—</b>											
(1) Afforestation in the (C District of Nadia. { V	..	..	..	..	..	..	..	..	..	..	..
(2) Rehabilitation of (C existing Government Forests. { V	..	..	..	..	..	..	33,995	..	..	33,995	34,673
(3) Provision for train- (C ing of technical and other personnel. { V	5,140	..	1,06,879	..	14,307	..	..	..	..	14,307	3,49,609
(4) Conservation of pri- (C vate forests and affor- restation of private waste lands. { V	..	..	205	..	..	..	..	40,353	..	40,353	42,135
(5) Creation of a Soil (C Conservation Circle. { V	..	..	4,518	..	..	..	..	1,04,653	..	1,04,653	1,09,151
(6) Improvement of (C communication, build- ings and water- supply in Govern- ment Forests. { V	30,286	373	70,629	..	..	..	..	..	..	..	2,99,437
(7) Deduct—Amount (C transferred to Circle. { V	..	..	..	..	..	..	..	..	..	..	..
(8) Add—Amount from (C transferred Circle. { V	..	..	..	..	..	..	..	..	..	..	..
Total F { C { V	35,426	9,373	1,82,231	..	14,307	..	33,995	1,45,506	..	1,93,908	9,57,641

A.—Conservancy Works.	..	4,75,838	3,003	1,58,418	..	7,185	8,410	17,686	..	566	27,692	..	..	61,539	1,58,418
B.—Establishment	..	5,574	11,663	1,70,561	6,761	23,426	22,988	29,116	..	1,626	15,722	..	..	74,587	4,53,903
C.—Interest on Capital	..	2,05,855	15,542	5,98,833	23,426	..	19,358	33,750	..	..	18,247	..	..	1,01,467	15,98,709
D.—Charges in England	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
E.—Loss or gain by ex- change on Home trans- actions other than stores	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
F.—Special Development Programme.	..	35,426	8,373	1,82,231	..	..	14,307	..	..	33,995	1,45,506	..	..	1,93,804	9,57,641
Total 10—Forest	..	5,574	11,663	3,34,979	6,761	22,988	22,988	29,116	..	..	15,722	..	..	74,587	6,70,846
		7,17,119	27,518	14,70,451	30,611	42,075	42,075	56,486		36,247	1,91,445			3,56,814	44,31,316

**FORM No. 26.**  
(Paragraph 45.)

**Revenue received and outstandings on account of revenue during 1946-47.**

Budget heads.		Particulars.											Value of sales and other revenue during year.		Total.		Amount realised during year.		Balance due to the department at end of the year.								
1		2											4		5		6		7								
NORTHERN CIRCLE.													Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.								
B. I. a.	..	Sale of timber extracted departmentally ..											1,26,922	8	3	9,33,865	1	0	10,60,787	9	3	9,65,974	0	0	94,813	9	3
B. I. b.	..	Sale of fuel extracted departmentally ..											35,789	5	9	1,20,363	4	3	1,56,152	10	0	1,20,493	0	0	35,659	10	0
B. I. c.	..	Sale of bamboos extracted departmentally..											85	4	0	940	12	0	1,026	0	0	1,026	0	0	....	....	....
B. I. d.	..	Sale of grass and other minor produce extracted departmentally.											13	0	0	1,802	5	0	1,815	5	0	1,721	0	0	94	5	0
B. II. a.	..	Sale of timber extracted by consumers or purchasers.											1,07,502	2	6	17,61,361	0	9	18,68,863	3	3	17,23,618	0	0	1,45,245	3	3
B. II. b.	..	Sale of firewood and charcoal extracted by consumers or purchasers.											13,910	13	9	3,07,545	7	9	3,21,456	5	6	3,02,927	0	0	18,529	5	6
B. II. c.	..	Sale of bamboos extracted by consumers or purchasers.											254	6	0	9,963	0	0	10,217	0	0	10,043	0	0	174	0	0
B. II. d.	..	Sale of grazing and fodder grass											....	....	....	19,859	0	0	19,859	0	0	19,859	0	0	....	....	....
B. II. e.	..	Sale of other minor produce											691	0	0	62,725	4	0	63,416	4	0	60,083	0	0	3,323	4	0
B. II. f.	..	Commutation fees											....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
B. II. g.	..	Sale of other items											....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
B. III.	..	Sale of drift and waif wood and confiscated forest produce.											623	13	0	5,064	3	0	5,688	0	0	5,548	0	0	140	0	0
B. V. a.	..	Fines and forfeitures											....	....	....	2,785	0	0	2,785	0	0	2,785	0	0	....	....	....
B. V. b.	..	Other sources											22	12	0	34,639	3	0	34,661	15	0	34,561	0	0	160	15	0
B. V. c.	..	Receipts (including rent) realised from works.											....	....	....	5,168	0	0	5,168	0	0	5,168	0	0	....	....	....
B. V. d.	..	Sale of forest produce purchased from trade.											....	....	....	34,784	0	0	34,784	0	0	34,784	0	0	....	....	....
B. VI	..	Receipts in England											....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
B. VII	..	Loss or gain by exchange											....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
B. VIII	..	Deduct—Refund											....	....	....	—22,535	0	0	—22,535	0	0	—22,535	0	0	....	....	....
		Total Northern Circle											2,56,814	11	3	39,28,300	8	9	36,14,115	4	0	35,16,080	0	0	2,98,065	4	0



## 7.

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**FORM No. 27.**  
(Paragraph 48.)  
**Outstandings and liabilities on account of contractors and disbursers for 1946-47.**

Division.	Department debtor.				Department creditor.			Balance due.	
	Opening balance.	Recoveries in cash or value of supplies and work done during the year.		Total.	Opening balance.	Payments made during the year.		To department (outstandings).	By department (liabilities).
	2	Rs. a. p.	Rs. a. p.	4	5	Rs. a. p.	Rs. a. p.	8	9
<b>1</b>									
<b>NORTHERN CIRCLE.</b>									
Lorjeeling ..	30 0 0	1,94,006 3 3	1,94,036 3 3		....	1,94,076 5 3	1,94,076 5 3	40 2 0	....
Kalimpong ..	....	2,30,331 8 0	2,30,331 8 0		8 1 9	2,30,378 6 3	2,30,356 8 0	55 0 0	....
Kurseong ..	....	6,35,934 3 0	6,35,934 3 0		353 3 9	6,36,992 4 3	6,37,320 8 0	1,356 5 0	....
Direction (North) ..	....	2,773 1 0	2,773 1 0		2,901 11 0	2,503 4 0	5,704 15 0	2,931 14 0	....
Buxa ..	....	5,12,331 5 0	5,12,331 5 0		90 0 0	5,12,261 13 6	5,12,331 13 6	20 8 6	....
Jalpaiguri ..	....	3,96,455 8 0	3,96,455 8 0		74 12 3	3,96,352 5 0	3,96,657 1 3	171 9 3	....
Bengal Forest School ..	....	21,377 14 0	21,377 14 0		1,365 0 0	23,177 14 0	24,432 14 0	3,105 0 0	....
Total Northern Circle	30 0 0	19,93,239 10 3	19,93,269 10 3		4,737 12 9	19,06,242 4 3	20,00,950 1 0	7,710 6 9	....
<b>DEVELOPMENT CIRCLE.</b>									
Silvicultural Division ..	....	23,453 13 3	23,453 13 3		....	24,147 9 3	24,147 9 3	693 12 0	....
Working Plans ..	....	23,396 6 9	23,396 6 9		120 2 9	23,506 4 0	23,716 6 9	320 0 0	....
Utilisation ..	....	341 0 0	341 0 0		....	341 0 0	341 0 0	....	....
Nadia ..	....	9,594 11 0	9,594 11 0		....	9,594 11 0	9,594 11 0	....	....
West Bengal ..	....	9,207 12 0	9,207 12 0		110 5 0	9,100 1 3	98,210 6 3	2 10 3	....
Total Development Circle ..	....	1,54,993 11 0	1,54,993 11 0		230 7 9	1,55,779 9 6	1,56,010 1 3	1,016 6 3	....
<b>GENERAL DIRECTION DIVISION ..</b>	....	2,216 8 0	2,216 8 0		....	2,357 8 0	2,357 8 0	141 0 0	....

# **SOUTHERN CIRCLE.**

Chittagong Hill Tracts	....	2,92,570 4 9	2,92,570 4 9	0 7 9	2,92,316 1 3	2,92,317 6 0	....	252 14 9
Chittagong	....	3,41,182 13 0	3,41,182 13 0	1,320 14 0	3,40,764 7 6	3,42,085 5 6	902 8 6	....
Decca-Mymensingh	....	1,82,879 7 9	1,82,879 7 9	0 4 0	1,33,422 8 9	1,33,122 12 9	243 5 0	....
Sundarbans	....	4,74,738 9 9	4,74,738 9 9	148 6 0	4,74,910 6 3	4,75,058 12 3	320 2 6	....
Direction (South)	1,979 0 0	3,975 14 0	5,954 14 0	....	3,910 12 9	3,619 12 9	....	2,336 1 3
Total Southern Circle	1,979 0 0	12,45,347 1 3	12,47,328 1 3	1,469 15 9	12,44,734 1 6	12,46,204 1 3	1,466 0 0	2,588 0 0
Grand Total	2,009 0 0	33,95,796 14 6	33,97,805 14 6	6,438 4 3	33,90,113 7 3	34,05,551 11 6	10,333 13 0	2,588 0 0

